Vienna Instruments
Appassionata
Strings I & II

Violin ensemble (20 players)
Viola ensemble (14 players)
Cello ensemble (12 players)
Bass ensemble (10 players)

Contents

Introduction

Welcome to the Vienna Symphonic Library Collections Appassionata Strings I and II. This document contains the mapping information for these Collections. You will find in it a comprehensive survey of the articulations/Patches for the Standard and the Extended Libraries of each instrument, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset in the Collections.

Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary.

Grace notes are mapped to their target note, i.e., the note the articulation ends with. Due to their nature, all **upward and downward articulations** (e.g., fixed glissandos or octave runs) have different mapping ranges – the upward movements ending the involved interval below the Patch's upper mapping range, while downward movements end the interval above its lower mapping range. (Please note that not all of the articulations mentioned above may be contained in your Collection.)

The velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements. The Patch information also lists the velocity layers in detail.

Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

A/B switching normally is set to A0/B0 for changing articulations (e.g., upward/downward or crescendo/diminuendo). However, some bass instruments go below that range so that the A/B keys have to be adapted accordingly. For example, the A/B switches for double bass are A0 and A#0 because the instrument's lower range extends to B0.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

Speed controller switches naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller settings in the **Map Control** tab of the *Vienna Instruments* player's Advanced View, and save the result in your Custom Matrix folder.

Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes (VI: 1–12; VI PRO: 1–127) instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes. Vienna Instruments PRO also allows you to define a MIDI Control for Preset keyswitching.

Library updates

If you purchased your Instrument Collection via download or on the *Vienna Hard Drive*, all previous library updates will already be included; if you own a DVD Collection, you can download the updates from your personal User Area. A general description of *Vienna Instruments PRO 2* Matrices and Presets included in these updates can be found in the Appendix "Vienna Instruments PRO 2 Matrices and Presets" on page 77.

Abbreviations

Instruments

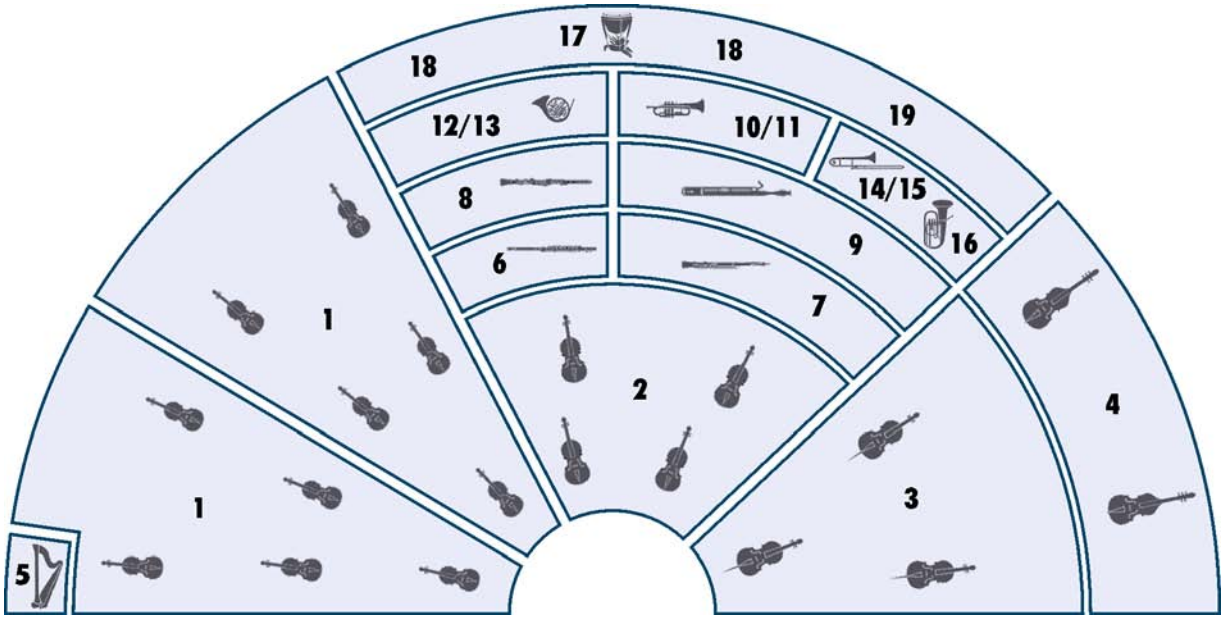
Abbreviation	English	German
DB	Double bass	Kontrabass
DB-10	Double bass ensemble (10 players)	
VA	Viola	Viola
VA-14	Viola ensemble (14 players)	
VC	Cello	Cello
VC-12	Cello ensemble (12 players)	
VI	Violin	Violine
VI-20	Violin ensemble (20 players)	

Articulations and other abbreviations

Abbreviation	Meaning	Abbreviation	Meaning
150, 160, …	150, 160, … BPM (beats per minute)	me	medium
1s, 2s, …	tone length 1 sec., 2 sec., …	noVib	without vibrato
4vel	interval performance with 4 velocity sustains	perf-rep	repetition performance
		pizz	pizzicato
all	combination of all Patches of a category	por	portato
		porta	portamento
cre	crescendo	spi, spic	spiccato
dim	diminuendo	sta, stac	staccato
dyn	dynamics (crescendo and diminuendo)	str	strong
		sul	on the same string
fa	fast	sus	sustained
fA	fast attack	trem	tremolo
fA_auto	attack automation (normal/fast attack)	tune	“tuning in” articulation
		tune-li	articulation with slightly detuned attack
fast-rep	fast repetitions		
gliss	glissando	Vib	with (medium) vibrato
leg	legato	Vib-strong	vibrato espressivo
marc	marcato	Vib-progr	progressive vibrato

The orchestra

There are several ways of setting up an orchestra, depending on the era of the piece played, the type of the piece and the instruments it requires, and even on the preference of the conductor. The figure below shows one of the more common setups, which can be taken as a guideline for mixing a composition, properly positioning the instruments in the stereo field and adding reverb according to the size of the concert hall you want your piece to be played in.



1 1st and 2nd violin
2 Viola
3 Cello
4 Double bass
5 Harp
6 Concert flute, piccolo
7 Oboe, English horn
8 Clarinet, bass clarinet
9 Bassoon, contrabassoon
10/11 Trumpet
12/13 Horn
14/15 Trombone
16 Tuba
17 Timpani
18 Drums, cymbals
19 other percussion instruments

Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

Appassionata Strings I

Articulations

Group	Level 1 (Standard) content	Level 2 (Extended) content
25 Strings appassionata		
01 BASIC ARTICULATIONS	Staccato, sustained, sforzato/sforzatissimo, tremolo sustained, and pizzicato	
25 Violins appassionata		
01 SHORT + LONG NOTES	Staccato, tight and loose Détaché Sustained with normal vibrato Pizzicato Tremolo, sustained	Sustained with strong and progressive vibrato Sustained, tuning in after the attack Sustained, on the G string
02 DYNAMICS	Sforzato/sforzatissimo	Medium crescendo and diminuendo, 2, 3, and 4 sec. Crescendo-diminuendo, 2, 4, and 6 sec.
10 PERF INTERVAL	Legato/portamento	Legato/portamento with 4 velocity sustains, progressive and strong vibrato, sforzato, detuned attack, and on the G string
11 PERF INTERVAL FAST	Legato	Spiccato Harsh Marcato
12 PERF TRILL		Trills, minor 2nd to major 3rd
13 PERF REPETITION	Legato Portato Spiccato	Harsh
14 FAST REPETITION		Staccato, 150 to 190 BPM
15 EFFECTS		Grace runs, chromatic, minor 3rd, up and down Clusters, wide and narrow range Random pizzicato
26 Violas appassionata		
01 SHORT + LONG NOTES	Staccato Détaché Sustained with normal vibrato Pizzicato Tremolo, sustained	Sustained with strong and progressive vibrato Sustained, tuning in after the attack
02 DYNAMICS	Sforzato/sforzatissimo	Medium crescendo and diminuendo, 2, 3, and 4 sec. Crescendo-diminuendo, 2, 4, and 6 sec.
10 PERF INTERVAL	Legato/portamento	Legato/portamento with 4 velocity sustains, progressive and strong vibrato, sforzato, and detuned attack
11 PERF INTERVAL FAST	Legato	Spiccato Marcato
12 PERF TRILL		Trills, minor 2nd to major 3rd
13 PERF REPETITION	Legato Portato Spiccato	
14 FAST REPETITION		Staccato, 150 to 190 BPM

Group	Level 1 (Standard) content	Level 2 (Extended) content
15 EFFECTS		Grace runs, chromatic, minor 3rd, up and down Clusters, wide and narrow range Random pizzicato
27 Celli appassionata		
01 SHORT + LONG NOTES	Staccato Détaché Sustained with normal vibrato Pizzicato Tremolo, sustained	Sustained with strong and progressive vibrato Sustained, tuning in after the attack
02 DYNAMICS	Sforzato/sforzatissimo	Medium crescendo and diminuendo, 2, 3, and 4 sec. Crescendo-diminuendo, 2, 4, and 6 sec.
10 PERF INTERVAL	Legato/portamento	Legato/portamento with 4 velocity sustains, progressive and strong vibrato, sforzato, and detuned attack
11 PERF INTERVAL FAST	Legato	Spiccato Marcato
12 PERF TRILL		Trills, minor 2nd to major 3rd
13 PERF REPETITION	Legato Portato Spiccato	
14 FAST REPETITION		Staccato, 150 to 180 BPM
15 EFFECTS		Grace runs, chromatic, minor 3rd, up and down Clusters, wide and narrow range Random pizzicato
28 Basses appassionata		
01 SHORT + LONG NOTES	Staccato Sustained Sforzato Pizzicato Tremolo, sustained	
10 PERF REPETITION	Portato	

25 Strings appassionata

This set contains combined Patches of the Appassionata violins, violas, cellos, and basses – an easy-to-use string section with basic articulations that doesn't take up much RAM and can be used for sketching a piece or do a quick part. The instruments blend in the overlapping areas, and are mapped as follows:
Basses: B0–F2
Cellos: C2–F3
Violas: C3–F4
Violins: C4–A7 (D#7)

Patches

01 BASIC ARTICULATIONS

Level 1: Staccato, sustained, sforzato/sforzatissimo, tremolo sustained, and pizzicato

01 App-Strings_staccato **Range: B0–D#7** **Samples: 288** **RAM: 18 MB** **Level 1**

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

02 App-Strings_sus **Range: B0–A7** **Samples: 545** **RAM: 34 MB** **Level 1**

Sustained
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples
2 Alternations

03 App-Strings_sfz **Range: B0–A7** **Samples: 184** **RAM: 11 MB** **Level 1**

Sforzato/sforzatissimo
2 velocity layers: 0–88 sfz; 89–127 sffz
2 Alternations

04 App-Strings_tremolo **Range: B0–G7** **Samples: 200** **RAM: 12 MB** **Level 1**

Tremolo sustained
2 velocity layers: 0–88 p; 89–127 f
Release samples

05 App-Strings_pizz **Range: B0–D#7** **Samples: 480** **RAM: 30 MB** **Level 1**

Repetition performances: Pizzicato, 5 repetitions
2 velocity layers: 0–88 p; 89–127 f

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

Matrices

App-Strings - Combi **Samples: 1697 RAM: 106 MB** **Level 1**

Combined Strings: Staccato, sustained, sforzato, tremolo, and pizzicato

Matrix switches: Horizontal: Keyswitches, E7–G#7

	E7	F7	F#7	G7	G#7
V1	staccato	sustained	sforzato	tremolo	pizzicato

Presets

App-Strings VSL preset **Samples: 1697 RAM: 106 MB** **Level 1**

This Preset contains the Matrix App-Strings - Combi.

25 Violins appassionata

Description

The violin, as the smallest of the stringed instruments, is the soprano instrument of the violin family (violin, viola, cello).

Since the Baroque era the strings – the most homogeneous of all instrument groups – have been the heart of the orchestra. Violins are always used in chorus and divided into 1st and 2nd violins. Modern string sections use 14 first and 12 second violins (in especially large orchestras 16 first and 14 second violins).

Range and notation

The violin has a range of G3–A7 (harmonic D8).

It is a non-transposing instrument and notated in treble clef.

Sound characteristics

Full, lively, singing, eloquent, introspective, supernatural, sensuous, lustrous, bright, metallic, vibrant, clear, glassy, flute-like, shrill, brilliant, sparkling, calm, thin, whistling, round, pure, muffled, solemn, austere, dark, muted, open, sustaining, rough, wafting, soft, sweet, merry, dancing, veiled.

The 1st violins generally play the higher part, which is usually the main melody. The 2nd violins often play the part of "lower sisters". They often play an octave below, darkening the overall timbre.

Combination with other instruments

All stringed instruments form a group with a homogeneous overall sound and perform tasks ranging from the subtlest tonal effects to the most eloquent reinforcements of sound and from the greatest possible tonal compactness to the greatest possible diversity. The violins' pizzicato blends well with the harp.

Woodwinds, generally speaking, provide the strings with more volume and power, while the strings make the woodwinds more mellow, especially when playing in *unison*.

The tonal blend with brass instruments is not as desirable. Perhaps the horn blends most successfully with violins, especially in concert with the cellos.

Patches

01 SHORT + LONG NOTES

Level 1: Staccato, tight and loose
Détaché
Sustained with normal vibrato
Pizzicato
Tremolo, sustained

Level 2: Sustained with strong and progressive vibrato
Sustained, tuning in after the attack
Sustained, on the G string

01 VI-20_staccato — **Range: G3–D#7** — **Samples: 330** — **RAM: 20 MB** — **Level 1**

Staccato, tight and loose
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations (tight), 4 Alternations (loose)
AB switch: tight/loose articulation

02 VI-20_detache — **Range: G3–D#7** — **Samples: 88** — **RAM: 5 MB** — **Level 1**

Détaché
2 velocity layers: 0–88 p; 89–127 f
2 Alternations

11 VI-20_sus_Vib — **Range: G3–A7** — **Samples: 242** — **RAM: 15 MB** — **Level 1**

Sustained, with vibrato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples
2 Alternations

12 VI-20_sus_Vib-strong — **Range: G3–D7** — **Samples: 140** — **RAM: 8 MB** — **Level 2**

Sustained, with strong vibrato
2 velocity layers: 0–88 mp; 89–127 mf
Release samples
2 Alternations

13 VI-20_sus_Vib-progr — **Range: G3–D7** — **Samples: 138** — **RAM: 8 MB** — **Level 2**

Sustained, with progressive vibrato
2 velocity layers: 0–88 mp; 89–127 mf
Release samples
2 Alternations

14 VI-20_sus_tune — **Range: G3–D7** — **Samples: 94** — **RAM: 5 MB** — **Level 2**

Sustained, with detuned attack
2 velocity layers: 0–88 mp; 89–127 mf
Release samples

15 VI-20_sus_sul-G **Range: G3–C#5** **Samples: 53** **RAM: 3 MB** **Level 2**

Sustained, on the G string, forte
1 velocity layer
Release samples
2 Alternations

21 VI-20_pizz **Range: G3–D#7** **Samples: 220** **RAM: 13 MB** **Level 1**

Repetition performances: Pizzicato, 5 repetitions
2 velocity layers: 0–88 p; 89–127 f

31 VI-20_tremolo **Range: G3–G7** **Samples: 96** **RAM: 6 MB** **Level 1**

Tremolo, sustained
2 velocity layers: 0–88 p; 89–127 f
Release samples

32 VI-20_tremolo_fA **Range: G3–G7** **Samples: 96** **RAM: 6 MB** **Level 1**

Tremolo, sustained
Optimized attack for legato
2 velocity layers
Release samples

33 VI-20_tremolo_fA_auto **Range: G3–G7** **Samples: 144** **RAM: 9 MB** **Level 1**

Tremolo, sustained
Attack automation
2 velocity layers
Release samples

02 DYNAMICS **Range: G3–D7**

Level 1: Sforzato/sforzatissimo

Level 2: Medium crescendo and diminuendo, 2, 3, and 4 sec.
Crescendo-diminuendo, 2, 4, and 6 sec.

01 VI-20_dyn-me_2s **Samples: 66** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo, 2 sec.
2 velocity layers: Crescendo: 0–127 p
Diminuendo: 0–88 p; 89–127 f
AB switch: crescendo/diminuendo

02 VI-20_dyn-me_3s **Samples: 66** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo, 3 sec.
2 velocity layers: Crescendo: 0–127 p
Diminuendo: 0–88 p; 89–127 f
AB switch: crescendo/diminuendo

03 VI-20_dyn-me_4s **Samples: 66** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo, 4 sec.
2 velocity layers: Crescendo: 0–127 p
Diminuendo: 0–88 p; 89–127 f
AB switch: crescendo/diminuendo

11 VI-20_pfp_2s **Samples: 22** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 2 sec.
1 velocity layer

12 VI-20_pfp_4s **Samples: 22** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 4 sec.
1 velocity layer

13 VI-20_pfp_6s **Samples: 22** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 6 sec.
1 velocity layer

21 VI-20_sfz **Range: G3–A7** **Samples: 100** **RAM: 6 MB** **Level 1**

Sforzato/sforzatissimo
2 velocity layers: 0–88 sfz; 89–127 sffz
2 Alternations

10 PERF INTERVAL Range: G3–D7

Level 1: Legato/portamento

Level 2: Legato/portamento with 4 velocity sustains, progressive and strong vibrato, sforzato, detuned attack, and on the G string

01 VI-20_perf-legato **Samples: 1416** **RAM: 88 MB** **Level 1**

Legato/portamento
Monophonic
2 velocity layers: Legato: 0–88 mp; 89–127 mf
Portamento: 0–88 p; 89–127 f
Release samples
AB switch: legato/portamento

02 VI-20_perf-legato_4vel **Samples: 1504** **RAM: 94 MB** **Level 2**

Legato/portamento, 4 velocity sustains
Monophonic
4 velocity layers: Legato: 0–88 mp; 89–127 mf
Portamento: 0–88 p; 89–127 f
Sustains: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples
AB switch: legato/portamento

03 VI-20_perf-legato_Vib-progr **Samples: 1412** **RAM: 88 MB** **Level 2**

Legato/portamento
Progressive vibrato
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

04 VI-20_perf-legato_Vib-strong **Samples: 1416 RAM: 88 MB** **Level 2**

Legato/portamento
Strong vibrato
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

05 VI-20_perf-legato_sfz **Samples: 1412 RAM: 88 MB** **Level 2**

Legato/portamento
Sforzato/sforzatissimo
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

06 VI-20_perf-legato_tune **Samples: 1460 RAM: 91 MB** **Level 2**

Legato/portamento
Detuned attack
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

07 VI-20_perf-legato_tune-li **Samples: 1460 RAM: 91 MB** **Level 2**

Legato/portamento
Slightly detuned attack
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

08 VI-20_perf-legato_sul-G **Range: G3–C#7 Samples: 291 RAM: 18 MB** **Level 2**

Legato/portamento, on the G string
Monophonic
1 velocity layer
Release samples
AB switch: legato/portamento

11 PERF INTERVAL FAST

Range: G3–D7

Level 1: Legato

Level 2: Spiccato
Harsh
Marcato

01 VI-20_perf-legato_fa **Samples: 982 RAM: 61 MB** **Level 1**

Legato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 VI-20_perf-spiccato_fa **Range: G3–A7** **Samples: 1482** **RAM: 92 MB** **Level 2**

Spiccato, fast, with repetition notes
Monophonic
2 velocity layers: 0–88 p; 89–127 mf

03 VI-20_perf-harsh_fa **Range: G3–A7** **Samples: 741** **RAM: 46 MB** **Level 2**

Harsh articulation, forte, fast, with repetition notes
Monophonic
1 velocity layer

04 VI-20_perf-marcato_fa **Samples: 1106** **RAM: 69 MB** **Level 2**

Marcato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

12 PERF TRILL **Range: G3–D7**

Level 2: Trills, minor 2nd to major 3rd

01 VI-20_perf-trill_leg **Samples: 2542** **RAM: 158 MB** **Level 2**

Performance trills, minor 2nd to major 3rd
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

13 PERF REPETITION

Level 1: Legato
Portato
Spiccato

Level 2: Harsh

01 VI-20_perf-rep_leg **Range: G3–D7** **Samples: 220** **RAM: 13 MB** **Level 1**

Legato, 5 repetitions
2 velocity layers: 0–88 mp; 89–127 mf

02 VI-20_perf-rep_por **Range: G3–G#7** **Samples: 450** **RAM: 28 MB** **Level 1**

Portato, 9 repetitions
2 velocity layers: 0–88 p; 89–127 f

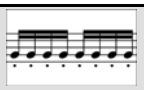
03 VI-20_perf-rep_spi **Range: G3–A7** **Samples: 450** **RAM: 28 MB** **Level 1**

Spiccato, 9 repetitions
2 velocity layers: 0–88 p; 89–127 mf

04 VI-20_perf-rep_harsh **Range: G3–A7** **Samples: 225** **RAM: 14 MB** **Level 2**

Harsh articulation, forte, 9 repetitions
1 velocity layer

14 FAST REPETITION — Range: G3–D7



Level 2: Staccato, 150 to 190 BPM

01 VI-20_fast-rep_150 (160/170/180/190) — Samples: 88 — RAM: 5 MB — Level 2

Staccato, 16 repetitions
150 to 190 BPM
2 velocity layers: 0–88 mp; 89–127 f
Release samples

15 EFFECTS — Range: G3–D7

Level 2: Grace runs, chromatic, minor 3rd, up and down
Clusters, wide range and tight
Random pizzicato

01 VI-20_grace-runs — Samples: 80 — RAM: 5 MB — Level 2

Grace runs, chromatic, minor 3rd up/down
The samples are mapped to the target note
Tone range: Up A#3–D7; down G3–B6
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

02 VI-20_grace-runs_fA — Samples: 80 — RAM: 5 MB — Level 2

Grace runs, chromatic, minor 3rd up/down
Optimized attack for legato combinations
Tone range: Up A#3–D7; down G3–B6
2 velocity layers
AB switch: up/down

11 VI-20_cluster — Samples: 63 — RAM: 3 MB — Level 2

Clusters, wide range
2 velocity layers
Release samples
2 Alternations

12 VI-20_cluster_tight — Range: G3–D#7 — Samples: 44 — RAM: 2 MB — Level 2

Clusters, narrow range
2 velocity layers
Release samples

21 VI-20_random-pizz — Range: G3–G5 — Samples: 24 — RAM: 1 MB — Level 2

Random pizzicato in different registers
1 velocity layer
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 VI-20 Articulation Combi

Samples: 1076 RAM: 67 MB **Level 1**

Single notes: Staccato, détaché, sustained, sforzato, pizzicato, and tremolo sustained
AB switch: A0/B0 – staccato tight/loose

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	staccato	détaché	sustained	sforzato	pizzicato	tremolo

L1 VI-20 Perf-Legato Speed

Samples: 1728 RAM: 108 MB **Level 1**

Interval performances: Legato/portamento normal and legato fast
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
legato	normal	fast

L1 VI-20 Perf-Repetitions - Combi

Samples: 1120 RAM: 70 MB **Level 1**

Repetition performances
Legato, portato, spiccato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	legato	portato	spiccato

Matrix - LEVEL 2

01 VI-20 Perf-Universal

Samples: 4266 RAM: 266 MB **Level 2**

Interval performances
Legato/portamento normal, legato fast
Marcato fast
Spiccato repetitions, spiccato fast
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 3 zones Vertical: Modwheel, 3 zones

	H1	H2	H3
legato	normal	normal	fast
marcato	fast	%	%
spiccato	repetitions	fast	fast

02 VI-20 Perf-Legato Combi

Samples: 1726 RAM: 107 MB **Level 2**

Interval performances
Legato/portamento normal, with progressive and strong vibrato, sforzato, and slightly detuned
AB switch: A0/B0 – legato/portamento

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
legato	normal	prog. vib.	strong vib.	sforzato	slight detune

03 VI-20 Perf-Legato Tune Combi

Samples: 1682 RAM: 105 MB **Level 2**

Interval performances
Legato/portamento normal, with progressive and strong vibrato, slightly detuned, and detuned
AB switch: A0/B0 – legato/portamento

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
legato	normal	prog. vib.	strong vib.
slightly detuned	%	%	%
detuned	%	%	%

04 VI-20 Perf-Trill Speed

Samples: 3288 RAM: 205 MB **Level 2**

Multi interval performances
Legato/portamento, and trills
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

05 VI-20 Short+Long notes - All

Samples: 933 RAM: 58 MB **Level 2**

Single notes
Staccato tight and loose
Détaché
Sustained with normal, strong, and progressive vibrato, detuned, and on the G string
AB switch: A0/B0 – staccato tight/loose

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1
staccato	%	%	%	%	%
détaché	%	%	%	%	%
sustained	normal vib.	strong vib.	prog. vib.	detuned	G string

06 VI-20 Dynamics - All

Samples: 364 RAM: 22 MB **Level 2**

Dynamics
Medium crescendo and diminuendo, 2, 3, and 4 sec.
Crescendo-diminuendo, 2, 4, and 6 sec.
Sforzato/sforzatissimo
AB switch: A0/B0 – crescendo/diminuendo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
cres-dim	2 sec.	4 sec.	6 sec.
sfz/sffz	%	%	%

07 VI-20 Fast Repetitions

Samples: 264 RAM: 16 MB Level 2

Fast repetitions
Staccato, 150 to 190 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	150	160	170	180	190

08 VI-20 Grace-Runs - Combi

Samples: 454 RAM: 28 MB Level 2

Grace runs with attack optimization
Sustained with normal and progressive vibrato, and detuned
Runs end with sustained notes
AB switch: A0/B0 – grace runs up/down

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
grace runs, sustained	normal vibrato	prog. vibrato	detuned

09 VI-20 Effects - All

Samples: 211 RAM: 13 MB Level 2

Wide and narrow clusters, grace runs normal and with attack optimization, random pizzicato
AB switch: A0/B0 – grace runs up/down

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	cluster wide	cluster narrow	grace runs	grace runs, opt. attack	random pizzicato

Presets

VI-20 VSL Preset Level 1

Samples: 3782 RAM: 236 MB Level 1

L1 VI-20 Perf-Legato Speed
L1 VI-20 Articulation Combi
L1 VI-20 Perf-Repetitions Combi
Preset keyswitches: C2–D2

VI-20 VSL Preset Level 2

Samples: 6310 RAM: 394 MB Level 2

01 VI-20 Perf-Universal
02 VI-20 Perf-Legato Combi
L1 VI-20 Articulation Combi
L1 VI-20 Perf-Repetitions Combi
05 VI-20 Short+Long notes - All
08 VI-20 Grace-Runs - Combi
09 VI-20 Effects - All
Preset keyswitches: C2–F#2

26 Violas appassionata

Description

The viola is the alto instrument of the violin family. It is constructed using the same components as the violin, the only difference being the larger size. Its stately and dark timbre contrasts sharply with that of the violin.

The modern symphony orchestra usually uses 10 (in large orchestras 12) violas.

Range and notation

The viola has a range from C3–A6 (harmonic E7).

The viola is a non-transposing instrument notated in alto clef, and in treble clef from the second octave above middle C. The viola's range lies mainly between C3 and G5, that is, within the alto clef's domain.

Sound characteristics

Dark, stately, reedy, warm, distinctive, full, lively, singing, eloquent, introspective, sensuous, round, muffled, solemn, austere, muted, rough, wafting, veiled, sonorous, powerful, robust.

The sound of the violas as a group achieves an austere charm which is used for melodic tasks at dramatic turning points, especially in the opera orchestra.

Combination with other instruments

The doubling of voices in the middle register is one of the viola's customary roles as it is acting as an intermediary between the violins and the cellos.

Woodwinds provide the strings with more volume and power, while the strings make the woodwinds more mellow, especially when playing in *unison*. In high registers and played *forte* or *fortissimo* the viola is perfectly capable of matching the woodwinds for intensity and acerbity of sound, an effect that is intensified when the groups play in combination.

The combination of violas and the majority of brass instruments produces a relatively homogeneous sound.

Patches

01 SHORT + LONG NOTES — Range: C3–D6

Level 1: Staccato
Détaché
Sustained with normal vibrato
Pizzicato
Tremolo, sustained

Level 2: Sustained with strong and progressive vibrato
Sustained, tuning in after the attack

01 VA-14_staccato — Range: C3–A6 — Samples: 132 — RAM: 8 MB — Level 1

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

02 VA-14_detache — Samples: 76 — RAM: 4 MB — Level 1

Détaché
2 velocity layers: 0–88 mp; 89–127 f
2 Alternations

11 VA-14_sus_Vib — Range: C3–G6 — Samples: 255 — RAM: 15 MB — Level 1

Sustained, with vibrato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples
2 Alternations

12 VA-14_sus_Vib-strong — Samples: 122 — RAM: 7 MB — Level 2

Sustained, with strong vibrato
2 velocity layers: 0–88 mp; 89–127 f
Release samples
2 Alternations

13 VA-14_sus_Vib-progr — Samples: 122 — RAM: 7 MB — Level 2

Sustained, with progressive vibrato
2 velocity layers: 0–88 p; 89–127 f
Release samples
2 Alternations

14 VA-14_sus_tune — Samples: 84 — RAM: 5 MB — Level 2

Sustained, with detuned attack
2 velocity layers: 0–88 mp; 89–127 f
Release samples

21 VA-14_pizz — Samples: 190 — RAM: 11 MB — Level 1

Repetition performances: Pizzicato, 5 repetitions
2 velocity layers: 0–88 p; 89–127 f

31 VA-14_tremolo **Samples: 114** **RAM: 7 MB** **Level 1**

Tremolo, sustained
2 velocity layers: 0–88 p; 89–127 f
Release samples
2 Alternations

32 VA-14_tremolo_fA **Samples: 76** **RAM: 4 MB** **Level 1**

Tremolo, sustained
Optimized attack for legato
2 velocity layers
Release samples

33 VA-14_tremolo_fA_auto **Samples: 114** **RAM: 7 MB** **Level 1**

Tremolo, sustained
Attack automation
2 velocity layers
Release samples
2 Alternations

02 DYNAMICS Range: C3–D6

Level 1: Sforzato/sforzatissimo

Level 2: Medium crescendo and diminuendo, 2, 3, and 4 sec.
Crescendo-diminuendo, 2, 4, and 6 sec.

01 VA-14_dyn-me_2s **Samples: 57** **RAM: 3 MB** **Level 2**

Medium crescendo and diminuendo, 2 sec.
2 velocity layers
AB switch: crescendo/diminuendo

02 VA-14_dyn-me_3s **Samples: 57** **RAM: 3 MB** **Level 2**

Medium crescendo and diminuendo, 3 sec.
2 velocity layers
AB switch: crescendo/diminuendo

03 VA-14_dyn-me_4s **Samples: 57** **RAM: 3 MB** **Level 2**

Medium crescendo and diminuendo, 4 sec.
2 velocity layers
AB switch: crescendo/diminuendo

11 VA-14_pfp_2s **Samples: 19** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 2 sec.
1 velocity layer

12 VA-14_pfp_4s **Samples: 19** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 4 sec.
1 velocity layer

13 VA-14_pfp_6s **Samples: 19** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 6 sec.
1 velocity layer

21 VA-14_sfz **Range: C3–A6** **Samples: 82** **RAM: 5 MB** **Level 1**

Sforzato/sforzatissimo
2 velocity layers: 0–88 sfz; 89–127 sffz
2 Alternations

10 PERF INTERVAL Range: C3–D6

Level 1: Legato/portamento

Level 2: Legato/portamento with 4 velocity sustains, progressive and strong vibrato, sforzato, and detuned attack

01 VA-14_perf-legato **Samples: 1064** **RAM: 66 MB** **Level 1**

Legato/portamento
Monophonic
2 velocity layers: Legato: 0–88 p; 89–127 f
Portamento: 0–88 p; 89–127 f
Release samples
AB switch: legato/portamento

02 VA-14_perf-legato_4vel **Samples: 1181** **RAM: 73 MB** **Level 2**

Legato/portamento, 4 velocity sustains
Monophonic
4 velocity layers: Legato: 0–88 p; 89–127 f
Portamento: 0–88 p; 89–127 f
Sustains: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples
AB switch: legato/portamento

03 VA-14_perf-legato_Vib-progr **Samples: 1056** **RAM: 66 MB** **Level 2**

Legato/portamento
Progressive vibrato
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

04 VA-14_perf-legato_Vib-strong **Samples: 1056** **RAM: 66 MB** **Level 2**

Legato/portamento
Strong vibrato
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

05 VA-14_perf-legato_sfz **Samples: 1058 RAM: 66 MB** **Level 2**

Legato/portamento
Sforzato
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

06 VA-14_perf-legato_tune **Samples: 1102 RAM: 68 MB** **Level 2**

Legato/portamento
Detuned attack
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

07 VA-14_perf-legato_tune-li **Samples: 1102 RAM: 68 MB** **Level 2**

Legato/portamento
Slightly detuned attack
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

11 PERF INTERVAL FAST **Range: C3–D6**

Level 1: Legato

Level 2: Spiccato
Marcato

01 VA-14_perf-legato_fa **Samples: 874 RAM: 54 MB** **Level 1**

Legato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 VA-14_perf-spiccato_fa **Samples: 1086 RAM: 67 MB** **Level 2**

Spiccato, fast, with repetition notes
Monophonic
2 velocity layers: 0–88 p; 89–127 f

03 VA-14_perf-marcato_fa **Samples: 954 RAM: 59 MB** **Level 2**

Marcato, fast
Monophonic
2 velocity layers: 0–88 mp; 89–127 f
Release samples

12 PERF TRILL — Range: C3–D6

Level 2: Trills, minor 2nd to major 3rd

01 VA-14_perf-trill_leg — Samples: 2274 RAM: 142 MB Level 2

Performance trills, minor 2nd to major 3rd
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

13 PERF REPETITION — Range: C3–D6

Level 1: Legato
Portato
Spiccato

01 VA-14_perf-rep_leg — Samples: 190 RAM: 11 MB Level 1

Legato, 5 repetitions
2 velocity layers: 0–88 p; 89–127 f

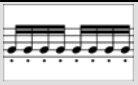
02 VA-14_perf-rep_por — Samples: 342 RAM: 21 MB Level 1

Portato, 9 repetitions
2 velocity layers: 0–88 p; 89–127 f

03 VA-14_perf-rep_spi — Samples: 342 RAM: 21 MB Level 1

Spiccato, 9 repetitions
2 velocity layers: 0–88 p; 89–127 f

14 FAST REPETITION — Range: C3–D6



Level 2: Staccato, 150 to 190 BPM

01 VA-14_fast-rep_150 (160/170/180/190) — Samples: 76 RAM: 4 MB Level 2

Staccato, 16 repetitions
150 to 190 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

15 EFFECTS — Range: C3–D6

Level 2: Grace runs, chromatic, minor 3rd, up and down
Clusters, wide range and tight
Random pizzicato

01 VA-14_grace-runs — Samples: 72 RAM: 4 MB Level 2

Grace runs, chromatic, minor 3rd up/down
The samples are mapped to the target note

Tone range: Up D#3–D6; down C3–B5
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

02 VA-14_grace-runs_fA **Samples: 72** **RAM: 4 MB** **Level 2**

Grace runs, chromatic, minor 3rd up/down
Optimized attack for legato combinations
Tone range: Up D#3–D6; down C3–B5
2 velocity layers
AB switch: up/down

11 VA-14_cluster **Samples: 57** **RAM: 3 MB** **Level 2**

Clusters, wide range
2 velocity layers
Release samples

12 VA-14_cluster_tight **Samples: 38** **RAM: 2 MB** **Level 2**

Clusters, narrow range
2 velocity layers
Release samples

21 VA-14_random-pizz **Range: C3–A#4** **Samples: 22** **RAM: 1 MB** **Level 2**

Random pizzicato in different registers
1 velocity layer
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 VA-14 Articulation Combi

Samples: 849 RAM: 53 MB Level 1

Single notes: Staccato, détaché, sustained with normal vibrato, sforzato, pizzicato, and tremolo sustained

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	staccato	détaché	sustained	sforzato	pizzicato	tremolo

L1 VA-14 Perf-Legato Speed

Samples: 1344 RAM: 84 MB Level 1

Interval performances: Legato/portamento normal and legato fast
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
legato	normal	fast

L1 VA-14 Perf-Repetitions Combi

Samples: 874 RAM: 54 MB Level 1

Repetition performances
Legato, portato, spiccato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	legato	portato	spiccato

Matrix - LEVEL 2

01 VA-14 Perf-Universal

Samples: 3254 RAM: 203 MB Level 2

Interval performances
Legato/portamento normal, legato fast
Marcato fast
Spiccato repetitions, spiccato fast
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 3 zones Vertical: Modwheel, 3 zones

	H1	H2	H3
legato	normal	normal	fast
marcato	fast	%	%
spiccato	repetitions	fast	fast

02 VA-14 Perf-Legato Combi

Samples: 1332 RAM: 83 MB Level 2

Interval performances
Legato/portamento normal, with progressive and strong vibrato, sforzato, and slightly detuned
AB switch: A0/B0 – legato/portamento

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
legato	normal	prog. vib.	strong vib.	sforzato	slight detune

03 VA-14 Perf-Legato Tune Combi

Samples: 1292 RAM: 80 MB **Level 2**

Interval performances
Legato/portamento normal, with progressive and strong vibrato, slightly detuned, and detuned
AB switch: A0/B0 – legato/portamento

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
legato	normal	prog. vib.	strong vib.
slightly detuned	%	%	%
detuned	%	%	%

04 VA-14 Perf-Trill Speed

Samples: 2744 RAM: 171 MB **Level 2**

Multi interval performances
Legato/portamento, and trills
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

05 VA-14 Short+Long notes - All

Samples: 653 RAM: 40 MB **Level 2**

Single notes
Staccato
Détaché
Sustained with normal, strong, and progressive vibrato, and detuned

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1
staccato	%	%	%	%	
détaché	%	%	%	%	
sustained	normal vib.	strong vib.	prog. vib.	detuned	

06 VA-14 Dynamics - All

Samples: 310 RAM: 19 MB **Level 2**

Dynamics
Medium crescendo and diminuendo, 2, 3, and 4 sec.
Crescendo-diminuendo, 2, 4, and 6 sec.
Sforzato/sforzatissimo
AB switch: A0/B0 – crescendo/diminuendo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
cres-dim	2 sec.	4 sec.	6 sec.
sfz/sffz	%	%	%

07 VA-14 Fast Repetitions

Samples: 228 RAM: 14 MB **Level 2**

Fast repetitions
Staccato, 150 to 190 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	150	160	170	180	190

08 VA-14 Grace-Runs - Combi

Samples: 441 RAM: 27 MB Level 2

Grace runs with attack optimization
Sustained with normal and progressive vibrato, and detuned
Runs end with sustained notes
AB switch: A0/B0 – grace runs up/down

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
grace runs, sustained	normal vibrato	prog. vibrato	detuned

09 VA-14 Effects - All

Samples: 211 RAM: 13 MB Level 2

Wide and narrow clusters, grace runs normal and with attack optimization, random pizzicato
AB switch: A0/B0 – grace runs up/down

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	cluster wide	cluster narrow	grace runs	grace runs, opt. attack	random pizzicato

Presets

VA-14 VSL Preset Level 1

Samples: 2937 RAM: 183 MB Level 1

L1 VA-14 Perf-Legato Speed
L1 VA-14 Articulation Combi
L1 VA-14 Perf-Repetitions Combi
Preset keyswitches: C2–D2

VA-14 VSL Preset Level 2

Samples: 4922 RAM: 307 MB Level 2

01 VA-14 Perf-Universal
02 VA-14 Perf-Legato Combi
L1 VA-14 Articulation Combi
L1 VA-14 Perf-Repetitions Combi
05 VA-14 Short+Long notes - All
08 VA-14 Grace-Runs - Combi
09 VA-14 Effects - All
Preset keyswitches: C2–F#2

27 Celli appassionata

Description

The cello is the tenor and bass instrument of the violin family.

In the 19th century the cello advanced along with the violin to become the most important bowed instrument for solo works.

The modern symphony orchestra usually uses 8 (in large orchestras 10) cellos.

Range and notation

The cello has a range from C2–A5 (harmonic A7).

It is a non-transposing instrument notated mainly in bass clef. Because of its huge range tenor and treble clef are also used.

Sound characteristics

Mellow, warm, sonorous, full, clear, brilliant, vibrant, singing, bright, lustrous, stately, lyrical, cantabile, thick, weighty, powerful, silky, lively, incisive, eloquent, transcendental, supernatural, sensuous, calm, round, pure, muffled, dark, open, sustaining, solemn, wafting, gentle, sweet, veiled.

The cello possesses a wide variety of differing tonal colors and means of expression, ranging from the calm and solemn in the lower register to bursts of passion in the uppermost register. It is something of a split personality: on the one hand it plays the part of the solid, reliable bass instrument; on the other hand it aspires to the passion of a heroic tenor.

Combination with other instruments

The cello has a particularly good blend with all other instruments in the orchestra.

Its tasks range from performing the bass part to expansive melody lines in the tenor register. Cellos playing in octaves with double basses is a "classic" combination.

Woodwinds provide the strings with more volume and power, while the strings make the woodwinds more mellow. Oboe and bassoon accentuate the bright and clear properties of the cello's sound, while the clarinet makes the cello sound more mellow.

The blend with the brass instruments is strongly influenced by the playing technique employed by the strings (pizzicato, col legno). The combination of cellos and horns played softly is particularly pleasing.

Patches

01 SHORT + LONG NOTES — Range: C2–A#5

Level 1: Staccato
Détaché
Sustained with normal vibrato
Pizzicato
Tremolo, sustained

Level 2: Sustained with strong and progressive vibrato
Sustained, tuning in after the attack

01 VC-12_staccato — Samples: 138 — RAM: 8 MB — Level 1

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

02 VC-12_detache — Samples: 92 — RAM: 5 MB — Level 1

Détaché
2 velocity layers: 0–88 mp; 89–127 f
2 Alternations

11 VC-12_sus_Vib — Samples: 288 — RAM: 18 MB — Level 1

Sustained, with vibrato
4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples
2 Alternations

12 VC-12_sus_Vib-strong — Samples: 140 — RAM: 8 MB — Level 2

Sustained, with strong vibrato
2 velocity layers: 0–88 mf; 89–127 f
Release samples
2 Alternations

13 VC-12_sus_Vib-progr — Samples: 140 — RAM: 8 MB — Level 2

Sustained, with progressive vibrato
2 velocity layers: 0–88 mp; 89–127 f
Release samples
2 Alternations

14 VC-12_sus_tune — Samples: 94 — RAM: 5 MB — Level 2

Sustained, with detuned attack
2 velocity layers: 0–88 p; 89–127 f
Release samples

21 VC-12_pizz — Samples: 230 — RAM: 14 MB — Level 1

Repetition performances: Pizzicato, 5 repetitions
2 velocity layers: 0–88 p; 89–127 f

31 VC-12_tremolo **Samples: 138** **RAM: 8 MB** **Level 1**

Tremolo, sustained
2 velocity layers: 0–88 p; 89–127 f
Release samples
2 Alternations

32 VC-12_tremolo_fA **Samples: 92** **RAM: 5 MB** **Level 1**

Tremolo, sustained
Optimized attack for legato
2 velocity layers
Release samples

33 VC-12_tremolo_fA_auto **Samples: 138** **RAM: 8 MB** **Level 1**

Tremolo, sustained
Attack automation
2 velocity layers
Release samples
2 Alternations

02 DYNAMICS Range: C2–A#5

Level 1: Sforzato/sforzatissimo

Level 2: Medium crescendo and diminuendo, 2, 3, and 4 sec.
Crescendo-diminuendo, 2, 4, and 6 sec.

01 VC-12_dyn-me_2s **Samples: 69** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo, 2 sec.
2 velocity layers
AB switch: crescendo/diminuendo

02 VC-12_dyn-me_3s **Samples: 69** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo, 3 sec.
2 velocity layers
AB switch: crescendo/diminuendo

03 VC-12_dyn-me_4s **Samples: 69** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo, 4 sec.
2 velocity layers
AB switch: crescendo/diminuendo

11 VC-12_pfp_2s **Samples: 23** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 2 sec.
1 velocity layer

12 VC-12_pfp_4s **Samples: 23** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 4 sec.
1 velocity layer

13 VC-12_pfp_6s **Samples: 23** **RAM: 1 MB** **Level 2**

Crescendo-diminuendo, 6 sec.
1 velocity layer

21 VC-12_sfz **Samples: 92** **RAM: 5 MB** **Level 1**

Sforzato/sforzatissimo
2 velocity layers: 0–88 sfz; 89–127 sffz
2 Alternations

10 PERF INTERVAL Range: C2–E5

Level 1: Legato/portamento

Level 2: Legato/portamento with 4 velocity sustains, progressive and strong vibrato, sforzato, and detuned attack

01 VC-12_perf-legato **Samples: 1130** **RAM: 70 MB** **Level 1**

Legato/portamento
Monophonic
2 velocity layers: Legato: 0–88 p; 89–127 f
Portamento: 0–127 f
Release samples
AB switch: legato/portamento

02 VC-12_perf-legato_4vel **Samples: 1266** **RAM: 79 MB** **Level 2**

Legato/portamento, 4 velocity sustains
Monophonic
4 velocity layers: Legato: 0–88 p; 89–127 f
Portamento: 0–127 f
Sustains: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f
Release samples
AB switch: legato/portamento

03 VC-12_perf-legato_Vib-progr **Samples: 1126** **RAM: 70 MB** **Level 2**

Legato/portamento
Progressive vibrato
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

04 VC-12_perf-legato_Vib-strong **Samples: 1126** **RAM: 70 MB** **Level 2**

Legato/portamento
Strong vibrato
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

05 VC-12_perf-legato_sfz **Samples: 1126 RAM: 70 MB** **Level 2**

Legato/portamento
Sforzato
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

06 VC-12_perf-legato_tune **Samples: 1172 RAM: 73 MB** **Level 2**

Legato/portamento
Detuned attack
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

07 VC-12_perf-legato_tune-li **Samples: 1172 RAM: 73 MB** **Level 2**

Legato/portamento
Slightly detuned attack
Monophonic
2 velocity layers
Release samples
AB switch: legato/portamento

11 PERF INTERVAL FAST — Range: C2–E5

Level 1: Legato

Level 2: Spiccato
Marcato

01 VC-12_perf-legato_fa **Samples: 928 RAM: 58 MB** **Level 1**

Legato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 VC-12_perf-spiccato_fa **Samples: 1170 RAM: 73 MB** **Level 2**

Spiccato, fast, with repetition notes
Monophonic
2 velocity layers: 0–88 p; 89–127 f

03 VC-12_perf-marcato_fa **Samples: 1012 RAM: 63 MB** **Level 2**

Marcato, fast
Monophonic
2 velocity layers: 0–88 mp; 89–127 f
Release samples

12 PERF TRILL — Range: C2–E5

Level 2: Trills, minor 2nd to major 3rd

01 VC-12_perf-trill_leg — Samples: 2408 RAM: 150 MB Level 2

Performance trills, minor 2nd to major 3rd
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

13 PERF REPETITION — Range: C2–A#5

Level 1: Legato
Portato
Spiccato

01 VC-12_perf-rep_leg — Samples: 230 RAM: 14 MB Level 1

Legato, 5 repetitions
2 velocity layers: 0–88 p; 89–127 f

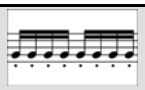
02 VC-12_perf-rep_por — Samples: 414 RAM: 25 MB Level 1

Portato, 9 repetitions
2 velocity layers: 0–88 p; 89–127 f

03 VC-12_perf-rep_spi — Samples: 414 RAM: 25 MB Level 1

Spiccato, 9 repetitions
2 velocity layers: 0–88 p; 89–127 f

14 FAST REPETITION — Range: C2–A#5



Level 2: Staccato, 150 to 180 BPM

01 VC-12_fast-rep_150 (160/170/180) — Samples: 92 RAM: 5 MB Level 2

Staccato, 16 repetitions
150 to 180 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

15 EFFECTS

Level 2: Grace runs, chromatic, minor 3rd, up and down
Clusters, wide range and tight
Random pizzicato

01 VC-12_grace-runs — Range: C2–F5 Samples: 76 RAM: 4 MB Level 2

Grace runs, chromatic, minor 3rd up/down
The samples are mapped to the target note

Tone range: Up D#2–F5; down C2–D5
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

02 VC-12_grace-runs_fA	**Range: C2–F5**	**Samples: 76**	**RAM: 4 MB**	**Level 2**

Grace runs, chromatic, minor 3rd up/down
Optimized attack for legato combinations
Tone range: Up D#2–F5; down C2–D5
2 velocity layers: 0–88 p; 89–127 f
AB switch: up/down

11 VC-12_cluster	**Range: C2–G#5**	**Samples: 66**	**RAM: 4 MB**	**Level 2**

Clusters, wide range
2 velocity layers
Release samples
2 Alternations

12 VC-12_cluster_tight	**Range: C2–A#5**	**Samples: 46**	**RAM: 2 MB**	**Level 2**

Clusters, narrow range
2 velocity layers
Release samples

21 VC-12_random-pizz	**Range: C2–A#3**	**Samples: 22**	**RAM: 1 MB**	**Level 2**

Random pizzicato in different registers
1 velocity layer
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 VC-12 Articulation Combi — Samples: 978 RAM: 61 MB Level 1

Single notes: Staccato, détaché, sustained with normal vibrato, sforzato, pizzicato, and tremolo sustained

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	staccato	détaché	sustained	sforzato	pizzicato	tremolo

L1 VC-12 Perf-Legato Speed — Samples: 1426 RAM: 89 MB Level 1

Interval performances: Legato/portamento normal and legato fast
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
legato	normal	fast

L1 VC-12 Perf-Repetitions Combi — Samples: 1058 RAM: 66 MB Level 1

Repetition performances
Legato, portato, spiccato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	legato	portato	spiccato

Matrix - LEVEL 2

01 VC-12 Perf-Universal — Samples: 3508 RAM: 219 MB Level 2

Interval performances
Legato/portamento normal, legato fast
Marcato fast
Spiccato repetitions, spiccato fast
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 3 zones Vertical: Modwheel, 3 zones

	H1	H2	H3
legato	normal	normal	fast
marcato	fast	%	%
spiccato	repetitions	fast	fast

02 VC-12 Perf-Legato Combi — Samples: 1424 RAM: 89 MB Level 2

Interval performances
Legato/portamento normal, with progressive and strong vibrato, sforzato, and slightly detuned
AB switch: A0/B0 – legato/portamento

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
legato	normal	prog. vib.	strong vib.	sforzato	slight detune

03 VC-12 Perf-Legato Tune Combi

Samples: 1382 RAM: 86 MB **Level 2**

Interval performances
Legato/portamento normal, with progressive and strong vibrato, slightly detuned, and detuned
AB switch: A0/B0 – legato/portamento

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
legato	normal	prog. vib.	strong vib.
slightly detuned	%	%	%
detuned	%	%	%

04 VC-12 Perf-Trill Speed

Samples: 2906 RAM: 181 MB **Level 2**

Multi interval performances
Legato/portamento, and trills
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

05 VC-12 Short+Long notes - All

Samples: 748 RAM: 46 MB **Level 2**

Single notes
Staccato
Détaché
Sustained with normal, strong, and progressive vibrato, and detuned

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1
staccato	%	%	%	%	
détaché	%	%	%	%	
sustained	normal vib.	strong vib.	prog. vib.	detuned	

06 VC-12 Dynamics - All

Samples: 368 RAM: 23 MB **Level 2**

Dynamics
Medium crescendo and diminuendo, 2, 3, and 4 sec.
Crescendo-diminuendo, 2, 4, and 6 sec.
Sforzato/sforzatissimo
AB switch: A0/B0 – crescendo/diminuendo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
cres-dim	2 sec.	4 sec.	6 sec.
sfz/sffz	%	%	%

07 VC-12 Fast Repetitions

Samples: 230 RAM: 14 MB **Level 2**

Fast repetitions
Staccato, 150 to 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
speed/BPM	150	160	170	180

08 VC-12 Grace-Runs - Combi

Samples: 502 RAM: 31 MB Level 2

Grace runs with attack optimization
Sustained with normal and progressive vibrato, and detuned
Runs end with sustained notes
AB switch: A0/B0 – grace runs up/down

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
grace runs, sustained	normal vibrato	prog. vibrato	detuned

09 VC-12 Effects - All

Samples: 210 RAM: 13 MB Level 2

Wide and narrow clusters, grace runs normal and with attack optimization, random pizzicato
AB switch: A0/B0 – grace runs up/down

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	cluster wide	cluster narrow	grace runs	grace runs, opt. attack	random pizzicato

Presets

VC-12 VSL Preset Level 1

Samples: 3326 RAM: 207 MB Level 1

L1 VC-12 Perf-Legato Speed
L1 VC-12 Articulation Combi
L1 VC-12 Perf-Repetitions Combi
Preset keyswitches: C6–D6

VC-12 VSL Preset Level 2

Samples: 5476 RAM: 342 MB Level 2

01 VC-12 Perf-Universal
02 VC-12 Perf-Legato Combi
L1 VC-12 Articulation Combi
L1 VC-12 Perf-Repetitions Combi
05 VC-12 Short+Long notes - All
08 VC-12 Grace-Runs - Combi
09 VC-12 Effects - All
Preset keyswitches: C6–F#6

28 Basses appassionata

Description

The double bass is the contrabass instrument of the string section and, with its sloping shoulders and its string tuning to fourths, is not strictly speaking a member of the violin family (violin, viola, cello).

The modern symphony orchestra usually uses 6 (in especially large orchestras 8) double basses.

Range and notation

The double bass has a range from B0–G4 (harmonic G6).

It is the only transposing stringed instrument. Because of its deep pitch, its notation is written an octave higher than it sounds, in bass clef.

Sound characteristics

Heavy, weighty, dark, weightless, wafting, somber, earthy, resonant, rasping, broad, hollow, dull, mighty, menacing, violent, mellow, sustaining, aspirate.

Like the tuba, the double bass lacks the high partials due to its great size, although the first six partials are especially prominent which makes the timbre dark, broad and smooth.

Combination with other instruments

The double bass, as the fundamental bass instrument, is capable of particularly good tonal combinations with all the other instruments, especially with its smaller partner the cello and all harmony instruments as well. Its powerful sound must provide a solid foundation which can support the sound structure and with which the other instruments blend. On the other hand it is also capable of playing melody lines, solo lines which stand out.

The double bass blends well with the low woodwinds (bass clarinet and contrabassoon) and brass instruments (horn, trombone, tuba).

Patches

01 SHORT + LONG NOTES — Range: B0–C4

Level 1: Staccato
Sustained
Sforzato
Pizzicato
Tremolo, sustained

01 DB-10_staccato — Samples: 114 — RAM: 7 MB — Level 1

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

11 DB-10_sus — Samples: 171 — RAM: 10 MB — Level 1

Sustained
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples
2 Alternations

12 DB-10_sfz — Samples: 57 — RAM: 3 MB — Level 1

Sforzato
1 velocity layer
Release samples
2 Alternations

21 DB-10_pizz — Samples: 190 — RAM: 11 MB — Level 1

Repetition performances: Pizzicato, 5 repetitions
2 velocity layers: 0–88 p; 89–127 f

31 DB-10_tremolo — Samples: 76 — RAM: 4 MB — Level 1

Tremolo, sustained
2 velocity layers: 0–88 p; 89–127 f
Release samples

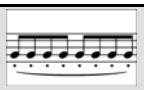
32 DB-10_tremolo_fA — Samples: 38 — RAM: 2 MB — Level 1

Tremolo, sustained
Optimized attack for legato
2 velocity layers
Release samples

33 DB-10_tremolo_fA_auto — Samples: 114 — RAM: 7 MB — Level 1

Tremolo, sustained
Attack automation
2 velocity layers
Release samples

10 PERF REPETITION — Range: B0–C4



Level 1: Portato

01 DB-10_perf-rep_por — **Samples: 342** **RAM: 21 MB** **Level 1**

Portato, 9 repetitions
2 velocity layers: 0–88 p; 89–127 f

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

Matrices

01 DB-10 Articulation Combi — **Samples: 931** **RAM: 58 MB** **Level 1**

Single notes: Staccato, sustained, sforzato, tremolo sustained, portato repetitions, and pizzicato

Matrix switches: Horizontal: Keyswitches, C6–F6

	C6	C#6	D6	D#6	E6	F6
V1	staccato	sustained	sforzato	tremolo	portato reps.	pizzicato

Presets

DB-10 VSL Preset — **Samples: 931** **RAM: 58 MB** **Level 1**

This Preset contains the Matrix 01 DB-10 Articulation Combi.

Appassionata Strings II

Articulations

Group	Level 1 (Standard) content	Level 2 (Extended) content
25 Strings appassionata		
11 Sordino BASIC ARTICULATIONS	Staccato Sustained Sforzato/sforzatissimo Tremolo sustained Pizzicato	
25 Violins appassionata		
15 EFFECTS	Minor and major arpeggios	
31 Sordino SHORT + LONG NOTES	Staccato Détaché Sustained with vibrato Pizzicato Tremolo	Sustained with progressive vibrato Sustained with detuned attack
32 Sordino DYNAMICS	Sforzato/sforzatissimo	Medium crescendo and diminuendo, 2, 3, and 4 sec.
40 Sordino PERF INTERVAL	Legato with vibrato/portamento	Legato with progressive vibrato/portamento Legato, sforzato/portamento Legato, detuned attack/portamento Legato, slightly detuned attack/portamento
41 Sordino PERF INTERVAL FAST	Legato, fast	Spiccato, fast
42 Sordino PERF TRILL		Trills, minor 2nd to major 3rd
43 Sordino PERF REPETITION	Legato Portato Spiccato	
44 Sordino FAST REPETITION		Staccato, 16ths at 150 to 190 BPM
45 Sordino EFFECTS		Minor and major arpeggios
26 Violas appassionata		
15 EFFECTS	Minor and major arpeggios	
31 Sordino SHORT + LONG NOTES	Staccato Détaché Sustained with vibrato Pizzicato Tremolo	Sustained with progressive vibrato Sustained with detuned attack
32 Sordino DYNAMICS	Sforzato/sforzatissimo	Medium crescendo and diminuendo, 2, 3, and 4 sec.
40 Sordino PERF INTERVAL	Legato with vibrato/portamento	Legato with progressive vibrato/portamento Legato, sforzato/portamento Legato, detuned attack/portamento Legato, slightly detuned attack/portamento

Group	Level 1 (Standard) content	Level 2 (Extended) content
41 Sordino PERF INTERVAL FAST	Legato, fast	Spiccato, fast
42 Sordino PERF TRILL		Trills, minor 2nd to major 3rd
43 Sordino PERF REPETITION	Legato Portato Spiccato	
44 Sordino FAST REPETITION		Staccato, 16ths at 150 to 190 BPM
45 Sordino EFFECTS		Minor and major arpeggios
27 Celli appassionata		
15 EFFECTS	Minor and major arpeggios	
31 Sordino SHORT + LONG NOTES	Staccato Détaché Sustained with vibrato Pizzicato Tremolo	Sustained with progressive vibrato Sustained with detuned attack
32 Sordino DYNAMICS	Sforzato/sforzatissimo	Medium crescendo and diminuendo, 2, 3, and 4 sec.
40 Sordino PERF INTERVAL	Legato with vibrato/portamento	Legato with progressive vibrato/portamento Legato, sforzato/portamento Legato, detuned attack/portamento Legato, slightly detuned attack/portamento
41 Sordino PERF INTERVAL FAST	Legato, fast	Spiccato, fast
42 Sordino PERF TRILL		Trills, minor 2nd to major 3rd
43 Sordino PERF REPETITION	Legato Portato Spiccato	
44 Sordino FAST REPETITION		Staccato, 16ths at 150 to 190 BPM
45 Sordino EFFECTS		Minor and major arpeggios
28 Basses appassionata		
31 Sordino SHORT + LONG NOTES	Staccato Sustained Sforzato Pizzicato Tremolo	
40 Sordino PERF REPETITION	Portato	

25 Strings appassionata

This set contains combined Patches of the Appassionata violins, violas, cellos, and basses – an easy-to-use string section with basic sordino articulations that doesn't take up much RAM and can be used for sketching a piece or do a quick part. The instruments blend in the overlapping areas, and are mapped as follows:
Basses: B0–F2
Cellos: C2–F3
Violas: C3–F4
Violins: C4–A7 (D#7)

Patches

11 Sordino BASIC ARTICULATIONS

Level 1: Staccato
Sustained
Sforzato/sforzatissimo
Tremolo sustained
Pizzicato

01 App-Strings_mu_staccato **Range: B0–D#7** **Samples: 294** **RAM: 18 MB** **Level 1**

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

02 App-Strings_mu_sus **Range: B0–A7** **Samples: 312** **RAM: 19 MB** **Level 1**

Sustained
2 velocity layers: 0–88 p; 89–127 f
Release samples
2 Alternations

03 App-Strings_mu_sfz **Range: B0–A7** **Samples: 308** **RAM: 19 MB** **Level 1**

Sforzato/sforzatissimo
2 velocity layers: 0–88 sfz; 89–127 sffz
Release samples
2 Alternations

04 App-Strings_mu_tremolo **Range: B0–G7** **Samples: 200** **RAM: 12 MB** **Level 1**

Tremolo, sustained
2 velocity layers: 0–88 p; 89–127 f
Release samples

05 App-Strings_mu_pizz **Range: B0–G7** **Samples: 500** **RAM: 31 MB** **Level 1**

Pizzicato, 5 repetitions
2 velocity layers: 0–88 p; 89–127 f

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

Matrices

App-Strings_mu - Combi **Samples: 1510 RAM: 94 MB** **Level 1**

Combined strings, con sordino: Staccato, sustained, sforzato/sforzatissimo, tremolo, pizzicato

Matrix switches: Horizontal: Keyswitches, E7–G#7

	E7	F7	F#7	G7	G#7
V1	staccato	sustained	sforzato	tremolo	pizzicato

Presets

App-Strings_mu VSL Preset **Samples: 1510 RAM: 94 MB** **Level 1**

Matrix: App-Strings_mu - Combi

25 Violins appassionata

Patches

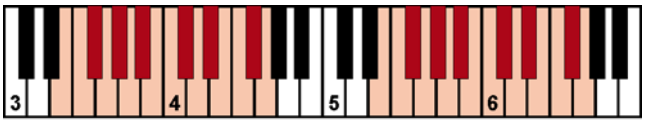
15 EFFECTS — Range: E3–G6

Level 1: Minor and major arpeggios

31 VI-20_arpeggios — Samples: 120 — RAM: 7 MB — Level 1

Arpeggios, major and minor
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: arpeggio release down/up

Mapping:
E3–G4: major
E5–G6: minor



31 Sordino SHORT + LONG NOTES

Level 1: Staccato
Détaché
Sustained with vibrato
Pizzicato
Tremolo

Level 2: Sustained with progressive vibrato
Sustained with detuned attack

01 VI-20_mu_staccato — Range: G3–D#7 — Samples: 132 — RAM: 8 MB — Level 1

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

02 VI-20_mu_detache — Range: G3–D#7 — Samples: 132 — RAM: 8 MB — Level 1

Détaché
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

11 VI-20_mu_sus_Vib — Range: G3–A7 — Samples: 150 — RAM: 9 MB — Level 1

Sustained, with vibrato
2 velocity layers: 0–88 p; 89–127 f
Release samples
2 Alternations

12 VI-20_mu_sus_Vib-progr **Range: G3–A7** **Samples: 150** **RAM: 9 MB** **Level 2**

Sustained, with progressive vibrato
2 velocity layers: 0–88 p; 89–127 f
Release samples
2 Alternations

13 VI-20_mu_sus_tune **Range: G3–D7** **Samples: 94** **RAM: 5 MB** **Level 2**

Sustained, out-of-tune attack
2 velocity layers: 0–88 p; 89–127 f
Release samples

21 VI-20_mu_pizz **Range: G3–G7** **Samples: 240** **RAM: 15 MB** **Level 1**

Repetition Performances: Pizzicato, 5 repetitions
2 velocity layers: 0–88 p; 89–127 f

31 VI-20_mu_tremolo **Range: G3–G7** **Samples: 96** **RAM: 6 MB** **Level 1**

Tremolo, sustained
2 velocity layers: 0–88 p; 89–127 f
Release samples

32 VI-20_mu_tremolo_fA **Range: G3–G7** **Samples: 96** **RAM: 6 MB** **Level 1**

Tremolo, sustained
Optimized attack for legato
2 velocity layers: 0–88 p; 89–127 f
Release samples

33 VI-20_mu_tremolo_fA_auto **Range: G3–G7** **Samples: 144** **RAM: 9 MB** **Level 1**

Tremolo, sustained
Attack automation
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

32 Sordino DYNAMICS **Range: G3–D7**

Level 1: Sforzato/sforzatissimo

Level 2: Medium crescendo and diminuendo, 2, 3, and 4 sec.

01 VI-20_mu_dyn-me_2s **Samples: 66** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo, 2 sec.
2 velocity layers
AB switch: crescendo/diminuendo

02 VI-20_mu_dyn-me_3s **Samples: 66** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo, 3 sec.
2 velocity layers
AB switch: crescendo/diminuendo

03 VI-20_mu_dyn-me_4s **Samples: 66** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo, 4 sec.
2 velocity layers
AB switch: crescendo/diminuendo

11 VI-20_mu_sfz **Range: G3–A7** **Samples: 100** **RAM: 6 MB** **Level 1**

Sforzato/sforzatissimo
2 velocity layers: 0–88 sfz; 89–127 sffz
2 Alternations

40 Sordino PERF INTERVAL Range: G3–D7

Level 1: Legato with vibrato/portamento

Level 2: Legato with progressive vibrato/portamento
Legato, sforzato/portamento
Legato, detuned attack/portamento
Legato, slightly detuned attack/portamento

01 VI-20_mu_perf-legato_Vib **Samples: 1478** **RAM: 92 MB** **Level 1**

Legato with vibrato / portamento
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: legato/portamento

02 VI-20_mu_perf-legato_Vib-progr **Samples: 1478** **RAM: 92 MB** **Level 2**

Legato with progressive vibrato / portamento
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: legato/portamento

03 VI-20_mu_perf-legato_sfz **Samples: 1478** **RAM: 92 MB** **Level 2**

Legato with sforzato/sforzatissimo attack / portamento
Monophonic
2 velocity layers: 0–88 sfz; 89–127 sffz
Release samples
AB switch: legato/portamento

04 VI-20_mu_perf-legato_tune **Samples: 1522** **RAM: 95 MB** **Level 2**

Legato with detuned attack / portamento
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: legato/portamento

05 VI-20_mu_perf-legato_tune-li **Samples: 1522 RAM: 95 MB** **Level 2**

Legato with slightly detuned attack / portamento
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: legato/portamento

41 Sordino PERF INTERVAL FAST — Range: G3–D7

Level 1: Legato, fast

Level 2: Spiccato, fast

01 VI-20_mu_perf-legato_fa **Samples: 1026 RAM: 64 MB** **Level 1**

Legato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 VI-20_mu_perf-spiccato_fa **Samples: 1284 RAM: 80 MB** **Level 2**

Spiccato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f

42 Sordino PERF TRILL — Range: G3–D7

Level 2: Multi Interval Performances: Trills, minor 2nd to major 3rd

01 VI-20_mu_perf-trill_leg **Samples: 2666 RAM: 166 MB** **Level 2**

Trills, minor 2nd to major 3rd
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

43 Sordino PERF REPETITION — Range: G3–D7

Level 1: Legato
Portato
Spiccato

01 VI-20_mu_perf-rep_leg **Samples: 220 RAM: 13 MB** **Level 1**

Legato
2 velocity layers: 0–88 p; 89–127 f

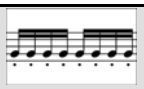
02 VI-20_mu_perf-rep_por **Samples: 396 RAM: 24 MB** **Level 1**

Portato
2 velocity layers: 0–88 p; 89–127 f

03 VI-20_mu_perf-rep_spi **Samples: 396** **RAM: 24 MB** **Level 1**

Spiccato
2 velocity layers: 0–88 p; 89–127 f

44 Sordino FAST REPETITION **Range: G3–D7**



Level 2: Staccato, 16ths at 150 to 190 BPM

01 VI-20_mu_fast-rep_150 (160/170/180/190) **Samples: 88** **RAM: 5 MB** **Level 2**

Staccato, 16ths at 150 to 190 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

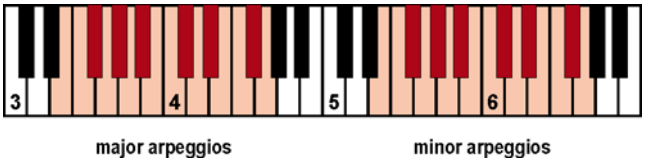
45 Sordino EFFECTS **Range: G3–D7**

Level 2: Minor and major arpeggios

31 VI-20_mu_arpeggios **Samples: 120** **RAM: 7 MB** **Level 2**

Arpeggios, major and minor
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: arpeggio release down/up

Mapping:
E3–G4: major
E5–G6: minor



99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - Sordino LEVEL 1

L1 VI-20_mu Articulation Combi

Samples: 850 RAM: 53 MB **Level 1**

Single notes: Staccato, détaché, sustained with vibrato, sforzato, pizzicato, and tremolo sustained

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	staccato	détaché	sustained, vibrato	sforzato	pizzicato	tremolo

L1 VI-20_mu Perf-Legato Speed

Samples: 1806 RAM: 112 MB **Level 1**

Interval performances: Legato/portamento normal and legato fast
AB switch: A0/B0 – legato/portamento
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
legato	normal	fast

L1 VI-20_mu Perf-Repetitions Combi

Samples: 1012 RAM: 63 MB **Level 1**

Repetition performances
Legato, portato, spiccato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	legato	portato	spiccato

Matrix - Sordino LEVEL 2

21 VI-20_mu Perf-Universal

Samples: 3090 RAM: 193 MB **Level 2**

Interval performances
Legato/portamento normal, legato fast
Spiccato fast
AB switch: A0/B0 – legato/portamento
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones Vertical: Modwheel, 2 zones

	H1	H2
legato	normal	fast
spiccato	fast	fast

22 VI-20_mu Perf-Legato Combi

Samples: 1726 RAM: 107 MB **Level 2**

Interval performances
Legato/portamento with normal and progressive vibrato, sforzato, and slightly detuned
AB switch: A0/B0 – legato/portamento
Monophonic

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
legato	vibrato	prog. vib.	sforzato	slight detune

23 VI-20_mu Perf-Legato Tune Combi

Samples: 1654 RAM: 103 MB Level 2

Interval performances
Legato/portamento normal and with progressive vibrato, slightly detuned, and detuned
AB switch: A0/B0 – legato/portamento
Monophonic

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 3 zones

	C1	C#1
legato	vibrato	prog. vib.
slightly detuned	%	%
detuned	%	%

24 VI-20_mu Perf-Trill Speed

Samples: 3446 RAM: 215 MB Level 2

Multi interval performances
Legato/portamento, and trills
AB switch: A0/B0 – legato/portamento
Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

25 VI-20_mu Short+Long notes - All

Samples: 558 RAM: 34 MB Level 2

Single notes
Staccato
Détaché
Sustained with normal and progressive vibrato, and detuned

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
staccato	%	%	%
détaché	%	%	%
sustained	vibrato	prog. vib.	detuned

26 VI-20_mu Dynamics - All

Samples: 298 RAM: 18 MB Level 2

Dynamics
Medium crescendo and diminuendo, 2, 3, and 4 sec.
Sforzato/sforzatissimo
AB switch: A0/B0 – crescendo/diminuendo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 2 zones

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
sfz/sffz	%	%	%

27 VI-20_mu Fast Repetitions

Samples: 264 RAM: 16 MB Level 2

Fast repetitions
Staccato, 16ths at 150 to 190 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	150	160	170	180	190

Presets

VI-20_mu VSL Preset Level 1 **Samples: 3530 RAM: 220 MB** **Level 1**

L1 VI-20_mu Perf-Legato Speed
L1 VI-20_mu Articulation Combi
L1 VI-20_mu Perf-Repetitions Combi
Preset Keyswitches: C2–D2

VI-20_mu VSL Preset Level 2 **Samples: 4606 RAM: 287 MB** **Level 2**

21 VI-20_mu Perf-Universal
22 VI-20_mu Perf-Legato Combi
L1 VI-20_mu Articulation Combi
L1 VI-20_mu Perf-Repetitions Combi
25 VI-20_mu Short+Long notes - All
Preset Keyswitches: C2–E2

26 Violas appassionata

Patches

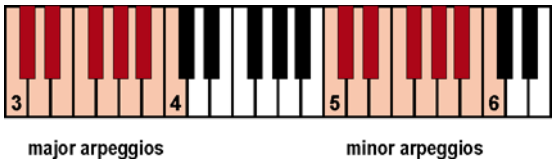
15 EFFECTS — Range: C3–C6

Level 1: Minor and major arpeggios

31 VA-14_arpeggios — **Samples: 84** — **RAM: 5 MB** — **Level 1**

Arpeggios, major and minor
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: arpeggio release down/up

Mapping:
C3–C4: major
C5–C6: minor



31 Sordino SHORT + LONG NOTES — Range: C3–G6

Level 1: Staccato
Détaché
Sustained with vibrato
Pizzicato
Tremolo

Level 2: Sustained with progressive vibrato
Sustained with detuned attack

01 VA-14_mu_staccato — **Samples: 132** — **RAM: 8 MB** — **Level 1**

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

02 VA-14_mu_detache — **Samples: 132** — **RAM: 8 MB** — **Level 1**

Détaché
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

11 VA-14_mu_sus_Vib — **Samples: 132** — **RAM: 8 MB** — **Level 1**

Sustained, with vibrato
2 velocity layers: 0–88 p; 89–127 f
Release samples
2 Alternations

12 VA-14_mu_sus_Vib-progr **Samples: 132** **RAM: 8 MB** **Level 2**

Sustained, with progressive vibrato
2 velocity layers: 0–88 p; 89–127 f
Release samples
2 Alternations

13 VA-14_mu_sus_tune **Range: C3–D6** **Samples: 82** **RAM: 5 MB** **Level 2**

Sustained, out-of-tune attack
2 velocity layers: 0–88 p; 89–127 f
Release samples

21 VA-14_mu_pizz **Range: C3–D6** **Samples: 190** **RAM: 11 MB** **Level 1**

Repetition Performances: Pizzicato, 5 repetitions
2 velocity layers: 0–88 p; 89–127 f

31 VA-14_mu_tremolo **Range: C3–D6** **Samples: 76** **RAM: 4 MB** **Level 1**

Tremolo, sustained
2 velocity layers: 0–88 p; 89–127 f
Release samples

32 VA-14_mu_tremolo_fA **Range: C3–D6** **Samples: 76** **RAM: 4 MB** **Level 1**

Tremolo, sustained
Optimized attack for legato
2 velocity layers: 0–88 p; 89–127 f
Release samples

33 VA-14_mu_tremolo_fA_auto **Range: C3–D6** **Samples: 114** **RAM: 7 MB** **Level 1**

Tremolo, sustained
Attack automation
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

32 Sordino DYNAMICS Range: C3–D6

Level 1: Sforzato/sforzatissimo

Level 2: Medium crescendo and diminuendo, 2, 3, and 4 sec.

01 VA-14_mu_dyn-me_2s **Samples: 57** **RAM: 3 MB** **Level 2**

Medium crescendo and diminuendo, 2 sec.
2 velocity layers
AB switch: crescendo/diminuendo

02 VA-14_mu_dyn-me_3s **Samples: 57** **RAM: 3 MB** **Level 2**

Medium crescendo and diminuendo, 3 sec.
2 velocity layers
AB switch: crescendo/diminuendo

03 VA-14_mu_dyn-me_4s **Samples: 57** **RAM: 3 MB** **Level 2**

Medium crescendo and diminuendo, 4 sec.
2 velocity layers
AB switch: crescendo/diminuendo

11 VA-14_mu_sfz **Range: C3–G6** **Samples: 88** **RAM: 5 MB** **Level 1**

Sforzato/sforzatissimo
2 velocity layers: 0–88 sfz; 89–127 sffz
2 Alternations

40 Sordino PERF INTERVAL — Range: C3–D6

Level 1: Legato with vibrato/portamento

Level 2: Legato with progressive vibrato/portamento
Legato, sforzato/portamento
Legato, detuned attack/portamento
Legato, slightly detuned attack/portamento

01 VA-14_mu_perf-legato_Vib **Samples: 1248** **RAM: 78 MB** **Level 1**

Legato with vibrato / portamento
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: legato/portamento

02 VA-14_mu_perf-legato_Vib-progr **Samples: 1248** **RAM: 78 MB** **Level 2**

Legato with progressive vibrato / portamento
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: legato/portamento

03 VA-14_mu_perf-legato_sfz **Samples: 1248** **RAM: 78 MB** **Level 2**

Legato with sforzato/sforzatissimo attack / portamento
Monophonic
2 velocity layers: 0–88 sfz; 89–127 sffz
Release samples
AB switch: legato/portamento

04 VA-14_mu_perf-legato_tune **Samples: 1286** **RAM: 80 MB** **Level 2**

Legato with detuned attack / portamento
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: legato/portamento

05 VA-14_mu_perf-legato_tune-li **Samples: 1286 RAM: 80 MB** **Level 2**

Legato with slightly detuned attack / portamento
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: legato/portamento

41 Sordino PERF INTERVAL FAST — Range: C3–D6

Level 1: Legato, fast

Level 2: Spiccato, fast

01 VA-14_mu_perf-legato_fa **Samples: 868 RAM: 54 MB** **Level 1**

Legato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 VA-14_mu_perf-spiccato_fa **Samples: 1086 RAM: 67 MB** **Level 2**

Spiccato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f

42 Sordino PERF TRILL — Range: C3–D6

Level 2: Multi Interval Performances: Trills, minor 2nd to major 3rd

01 VA-14_mu_perf-trill_leg **Samples: 2268 RAM: 141 MB** **Level 2**

Trills, minor 2nd to major 3rd
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

43 Sordino PERF REPETITION — Range: C3–D6

Level 1: Legato
Portato
Spiccato

01 VA-14_mu_perf-rep_leg **Samples: 190 RAM: 11 MB** **Level 1**

Legato
2 velocity layers: 0–88 p; 89–127 f

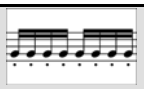
02 VA-14_mu_perf-rep_por **Samples: 342 RAM: 21 MB** **Level 1**

Portato
2 velocity layers: 0–88 p; 89–127 f

03 VA-14_mu_perf-rep_spi **Samples: 342** **RAM: 21 MB** **Level 1**

Spiccato
2 velocity layers: 0–88 p; 89–127 f

44 Sordino FAST REPETITION Range: C3–D6



Level 2: Staccato, 16ths at 150 to 190 BPM

01 VA-14_mu_fast-rep_150 (160/170/180/190) **Samples: 76** **RAM: 4 MB** **Level 2**

Staccato, 16ths at 150 to 190 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

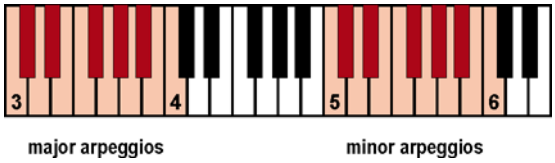
45 Sordino EFFECTS Range: C3–C6

Level 2: Minor and major arpeggios

31 VA-14_mu_arpeggios **Samples: 84** **RAM: 5 MB** **Level 2**

Arpeggios, major and minor
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: arpeggio release down/up

Mapping:
C3–C4: major
C5–C6: minor



99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - Sordino LEVEL 1

L1 VA-14_mu Articulation Combi

Samples: 750 RAM: 46 MB **Level 1**

Single notes: Staccato, détaché, sustained with vibrato, sforzato, pizzicato, and tremolo sustained

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	staccato	détaché	sustained, vibrato	sforzato	pizzicato	tremolo

L1 VA-14_mu Perf-Legato Speed

Samples: 1528 RAM: 95 MB **Level 1**

Interval performances: Legato/portamento normal and legato fast
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
legato	normal	fast

L1 VA-14_mu Perf-Repetitions Combi

Samples: 1012 RAM: 63 MB **Level 1**

Repetition performances
Legato, portato, spiccato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	legato	portato	spiccato

Matrix - Sordino LEVEL 2

21 VA-14_mu Perf-Universal

Samples: 2614 RAM: 163 MB **Level 2**

Interval performances
Legato/portamento normal, legato fast
Spiccato fast
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 2 zones Vertical: Modwheel, 2 zones

	H1	H2
legato	normal	fast
spiccato	fast	fast

22 VA-14_mu Perf-Legato Combi

Samples: 1446 RAM: 90 MB **Level 2**

Interval performances
Legato/portamento with normal and progressive vibrato, sforzato, and slightly detuned
AB switch: A0/B0 – legato/portamento

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
legato	vibrato	prog. vib.	sforzato	slight detune

23 VA-14_mu Perf-Legato Tune Combi

Samples: 1404 RAM: 87 MB Level 2

Interval performances
Legato/portamento normal and with progressive vibrato, slightly detuned, and detuned
AB switch: A0/B0 – legato/portamento

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 3 zones

	C1	C#1
legato	vibrato	prog. vib.
slightly detuned	%	%
detuned	%	%

24 VA-14_mu Perf-Trill Speed

Samples: 2928 RAM: 183 MB Level 2

Multi interval performances
Legato/portamento, and trills
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

25 VA-14_mu Short+Long notes - All

Samples: 522 RAM: 32 MB Level 2

Single notes
Staccato
Détaché
Sustained with normal and progressive vibrato, and detuned

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
staccato	%	%	%
détaché	%	%	%
sustained	vibrato	prog. vib.	detuned

26 VA-14_mu Dynamics - All

Samples: 259 RAM: 16 MB Level 2

Dynamics
Medium crescendo and diminuendo, 2, 3, and 4 sec.
Sforzato/sforzatissimo
AB switch: A0/B0 – crescendo/diminuendo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 2 zones

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
sfz/sffz	%	%	%

27 VA-14_mu Fast Repetitions

Samples: 228 RAM: 14 MB Level 2

Fast repetitions
Staccato, 16ths at 150 to 190 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	150	160	170	180	190

Presets

VA-14_mu VSL Preset Level 1 **Samples: 3166 RAM: 197 MB** **Level 1**

L1 VA-14_mu Perf-Legato Speed
L1 VA-14_mu Articulation Combi
L1 VA-14_mu Perf-Repetitions Combi
Preset Keyswitches: C2–D2

VA-14_mu VSL Preset Level 2 **Samples: 4416 RAM: 276 MB** **Level 2**

21 VA-14_mu Perf-Universal
22 VA-14_mu Perf-Legato Combi
L1 VA-14_mu Articulation Combi
L1 VA-14_mu Perf-Repetitions Combi
25 VA-14_mu Short+Long notes - All
Preset Keyswitches: C2–E2

27 Celli appassionata

Patches

15 EFFECTS — Range: C2–C5

Level 1: Minor and major arpeggios

31 VC-12_arpeggios — Samples: 84 — RAM: 5 MB — Level 1

Arpeggios, major and minor
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: arpeggio release down/up

Mapping:
C2–C3: major
C4–C5: minor

31 Sordino SHORT + LONG NOTES

Level 1: Staccato
Détaché
Sustained with vibrato
Pizzicato
Tremolo

Level 2: Sustained with progressive vibrato
Sustained with detuned attack

01 VC-12_mu_staccato — Range: C2–A#5 — Samples: 144 — RAM: 9 MB — Level 1

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

02 VC-12_mu_detache — Range: C2–A#5 — Samples: 138 — RAM: 8 MB — Level 1

Détaché
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

11 VC-12_mu_sus_Vib — Range: C2–A#5 — Samples: 144 — RAM: 9 MB — Level 1

Sustained, with vibrato
2 velocity layers: 0–88 p; 89–127 f
Release samples
2 Alternations

12 VC-12_mu_sus_Vib-progr **Range: C2–A#5** **Samples: 140** **RAM: 8 MB** **Level 2**

Sustained, with progressive vibrato
2 velocity layers: 0–88 p; 89–127 f
Release samples
2 Alternations

13 VC-12_mu_sus_tune **Range: C2–A#5** **Samples: 94** **RAM: 5 MB** **Level 2**

Sustained, out-of-tune attack
2 velocity layers: 0–88 p; 89–127 f
Release samples

21 VC-12_mu_pizz **Range: C2–A#5** **Samples: 230** **RAM: 14 MB** **Level 1**

Repetition Performances: Pizzicato, 5 repetitions
2 velocity layers: 0–88 p; 89–127 f

31 VC-12_mu_tremolo **Range: C2–A#5** **Samples: 92** **RAM: 5 MB** **Level 1**

Tremolo, sustained
2 velocity layers: 0–88 p; 89–127 f
Release samples

32 VC-12_mu_tremolo_fA **Range: C2–A#5** **Samples: 92** **RAM: 5 MB** **Level 1**

Tremolo, sustained
Optimized attack for legato
2 velocity layers: 0–88 p; 89–127 f
Release samples

33 VC-12_mu_tremolo_fA_auto **Range: C2–A#5** **Samples: 138** **RAM: 8 MB** **Level 1**

Tremolo, sustained
Attack automation
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

32 Sordino DYNAMICS **Range: C2–A#5**

Level 1: Sforzato/sforzatissimo

Level 2: Medium crescendo and diminuendo, 2, 3, and 4 sec.

01 VC-12_mu_dyn-me_2s **Samples: 69** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo, 2 sec.
2 velocity layers
AB switch: crescendo/diminuendo

02 VC-12_mu_dyn-me_3s **Samples: 69** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo, 3 sec.
2 velocity layers
AB switch: crescendo/diminuendo

03 VC-12_mu_dyn-me_4s **Samples: 69** **RAM: 4 MB** **Level 2**

Medium crescendo and diminuendo, 4 sec.
2 velocity layers
AB switch: crescendo/diminuendo

11 VC-12_mu_sfz **Samples: 92** **RAM: 5 MB** **Level 1**

Sforzato/sforzatissimo
2 velocity layers: 0–88 sfz; 89–127 sffz

40 Sordino PERF INTERVAL Range: C2–E5

Level 1: Legato with vibrato/portamento

Level 2: Legato with progressive vibrato/portamento
Legato, sforzato/portamento
Legato, detuned attack/portamento
Legato, slightly detuned attack/portamento

01 VC-12_mu_perf-legato_Vib **Samples: 1332** **RAM: 83 MB** **Level 1**

Legato with vibrato / portamento
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: legato/portamento

02 VC-12_mu_perf-legato_Vib-progr **Samples: 1328** **RAM: 83 MB** **Level 2**

Legato with progressive vibrato / portamento
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: legato/portamento

03 VC-12_mu_perf-legato_sfz **Samples: 1328** **RAM: 83 MB** **Level 2**

Legato with sforzato/sforzatissimo attack / portamento
Monophonic
2 velocity layers: 0–88 sfz; 89–127 sffz
Release samples
AB switch: legato/portamento

04 VC-12_mu_perf-legato_tune **Samples: 1374** **RAM: 85 MB** **Level 2**

Legato with detuned attack / portamento
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: legato/portamento

05 VC-12_mu_perf-legato_tune-li **Samples: 1374** **RAM: 85 MB** **Level 2**

Legato with slightly detuned attack / portamento
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: legato/portamento

41 Sordino PERF INTERVAL FAST

Level 1: Legato, fast

Level 2: Spiccato, fast

01 VC-12_mu_perf-legato_fa **Range: C2–E5** **Samples: 929** **RAM: 58 MB** **Level 1**

Legato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 VC-12_mu_perf-spiccato_fa **Range: C2–A5** **Samples: 1350** **RAM: 84 MB** **Level 2**

Spiccato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f

42 Sordino PERF TRILL Range: C2–E5

Level 2: Multi Interval Performances: Trills, minor 2nd to major 3rd

01 VC-12_mu_perf-trill_leg **Samples: 2408** **RAM: 150 MB** **Level 2**

Trills, minor 2nd to major 3rd
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

43 Sordino PERF REPETITION Range: C2–A#5

Level 1: Legato
Portato
Spiccato

01 VC-12_mu_perf-rep_leg **Samples: 230** **RAM: 14 MB** **Level 1**

Legato
2 velocity layers: 0–88 p; 89–127 f

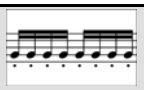
02 VC-12_mu_perf-rep_por **Samples: 414** **RAM: 25 MB** **Level 1**

Portato
2 velocity layers: 0–88 p; 89–127 f

03 VC-12_mu_perf-rep_spi **Samples: 414** **RAM: 25 MB** **Level 1**

Spiccato
2 velocity layers: 0–88 p; 89–127 f

44 Sordino FAST REPETITION — Range: C2–A#5



Level 2: Staccato, 16ths at 150 to 190 BPM

01 VC-12_mu_fast-rep_150 (160/170/180/190) — Samples: 92 — RAM: 5 MB — Level 2

Staccato, 16ths at 150 to 190 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

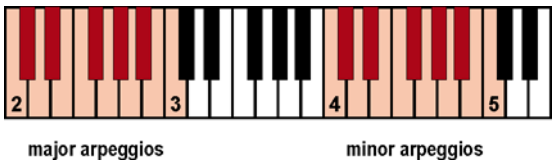
45 Sordino EFFECTS — Range: C2–C5

Level 2: Minor and major arpeggios

31 VC-12_mu_arpeggios — Samples: 84 — RAM: 5 MB — Level 2

Arpeggios, major and minor
2 velocity layers: 0–88 p; 89–127 f
Release samples
AB switch: arpeggio release down/up

Mapping:
C2–C3: major
C4–C5: minor



99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - Sordino LEVEL 1

L1 VC-12_mu Articulation Combi — Samples: 840 RAM: 52 MB Level 1

Single notes: Staccato, détaché, sustained with vibrato, sforzato, pizzicato, and tremolo sustained

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	staccato	détaché	sustained, vibrato	sforzato	pizzicato	tremolo

L1 VC-12_mu Perf-Legato Speed — Samples: 1629 RAM: 101 MB Level 1

Interval performances: Legato/portamento normal and legato fast
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
legato	normal	fast

L1 VC-12_mu Perf-Repetitions Combi — Samples: 1058 RAM: 66 MB Level 1

Repetition performances
Legato, portato, spiccato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	legato	portato	spiccato

Matrix - Sordino LEVEL 2

21 VC-12_mu Perf-Universal — Samples: 2979 RAM: 186 MB Level 2

Interval performances
Legato/portamento normal, legato fast
Spiccato fast
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 2 zones Vertical: Modwheel, 2 zones

	H1	H2
legato	normal	fast
spiccato	fast	fast

22 VC-12_mu Perf-Legato Combi — Samples: 1542 RAM: 96 MB Level 2

Interval performances
Legato/portamento with normal and progressive vibrato, sforzato, and slightly detuned
AB switch: A0/B0 – legato/portamento

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
legato	vibrato	prog. vib.	sforzato	slight detune

23 VC-12_mu Perf-Legato Tune Combi

Samples: 1500 RAM: 93 MB **Level 2**

Interval performances
Legato/portamento normal and with progressive vibrato, slightly detuned, and detuned
AB switch: A0/B0 – legato/portamento

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 3 zones

	C1	C#1
legato	vibrato	prog. vib.
slightly detuned	%	%
detuned	%	%

24 VC-12_mu Perf-Trill Speed

Samples: 3108 RAM: 194 MB **Level 2**

Multi interval performances
Legato/portamento, and trills
AB switch: A0/B0 – legato/portamento
Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

25 VC-12_mu Short+Long notes - All

Samples: 564 RAM: 35 MB **Level 2**

Single notes
Staccato
Détaché
Sustained with normal and progressive vibrato, and detuned

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
staccato	%	%	%
détaché	%	%	%
sustained	vibrato	prog. vib.	detuned

26 VC-12_mu Dynamics - All

Samples: 299 RAM: 18 MB **Level 2**

Dynamics
Medium crescendo and diminuendo, 2, 3, and 4 sec.
Sforzato/sforzatissimo
AB switch: A0/B0 – crescendo/diminuendo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 2 zones

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
sfz/sffz	%	%	%

27 VC-12_mu Fast Repetitions

Samples: 276 RAM: 17 MB **Level 2**

Fast repetitions
Staccato, 16ths at 150 to 190 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	150	160	170	180	190

Presets

VC-12_mu VSL Preset Level 1 **Samples: 3391 RAM: 211 MB Level 1**

L1 VC-12_mu Perf-Legato Speed
L1 VC-12_mu Articulation Combi
L1 VC-12_mu Perf-Repetitions Combi
Preset Keyswitches: C6–D6

VC-12_mu VSL Preset Level 2 **Samples: 4507 RAM: 281 MB Level 2**

21 VC-12_mu Perf-Universal
22 VC-12_mu Perf-Legato Combi
L1 VC-12_mu Articulation Combi
L1 VC-12_mu Perf-Repetitions Combi
25 VC-12_mu Short+Long notes - All
Preset Keyswitches: C6–E6

28 Basses appassionata

Patches

31 Sordino SHORT + LONG NOTES Range: B0–C4

Level 1: Staccato
Sustained
Sforzato
Pizzicato
Tremolo

01 DB-10_mu_staccato **Samples: 114** **RAM: 7 MB** **Level 1**

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

11 DB-10_mu_sus **Samples: 114** **RAM: 7 MB** **Level 1**

Sustained
2 velocity layers: 0–88 p; 89–127 f
Release samples
2 Alternations

12 DB-10_mu_sfz **Samples: 114** **RAM: 7 MB** **Level 1**

Sforzato
2 velocity layers: 0–88 sfz; 89–127 sffz
Release samples
2 Alternations

21 DB-10_mu_pizz **Samples: 190** **RAM: 11 MB** **Level 1**

Repetition Performances: Pizzicato, 5 repetitions
2 velocity layers: 0–88 p; 89–127 f

31 DB-10_mu_tremolo **Samples: 76** **RAM: 4 MB** **Level 1**

Tremolo, sustained
2 velocity layers: 0–88 p; 89–127 f
Release samples

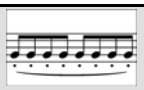
32 DB-10_mu_tremolo_fA **Samples: 76** **RAM: 4 MB** **Level 1**

Tremolo, sustained
Optimized attack for legato
2 velocity layers: 0–88 p; 89–127 f
Release samples

33 DB-10_mu_tremolo_fA_auto **Samples: 114** **RAM: 7 MB** **Level 1**

Tremolo, sustained
Attack automation
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

40 Sordino PERF REPETITION **Range: B0–C4**



Level 1: Portato

01 DB-10_mu_perf-rep_por **Samples: 342** **RAM: 21 MB** **Level 1**

Portato
2 velocity layers: 0–88 p; 89–127 f

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments Matrix – you will not be able to hear anything when you try to play them.

Matrices

01 DB-10_mu Articulation Combi **Samples: 912** **RAM: 57 MB** **Level 1**

Single notes: Staccato, sustained, sforzato, tremolo sustained, portato repetitions, and pizzicato

Matrix switches: Horizontal: Keyswitches, C6–F6

	C6	C#6	D6	D#6	E6	F6
V1	staccato	sustained	sforzato	tremolo	portato	pizzicato

Presets

DB-10_mu VSL Preset **Samples: 912** **RAM: 57 MB** **Level 1**

Matrix: 01 DB-10_mu Articulation Combi

Vienna Instruments PRO II Matrices and Presets

Introduction

Update Installation – DVD Collections

All new VI PRO 2 Presets and Matrices are installed by installing the Library Updates, available in your User Area www.vsl.co.at/user.

Make sure that you have installed the latest version of Vienna Instruments PRO 2 and launch the Directory Manager.

WIN: "Start" button => "All programs" => "Vienna Instruments PRO"

OS X: "Applications" => "Vienna Instruments PRO"

Drag your downloaded Library Update .zip files on top of the sample content folder list in the Directory Manager; there is no need to unpack them first. It is also possible to take more than one .zip, as they will be installed one after the other. You will be guided through the update installation.

> **Attention:** Please make sure to have all the Vienna Instruments Libraries you want to update loaded entirely in the Directory Manager – this will save you a few mouseclicks.

General Information

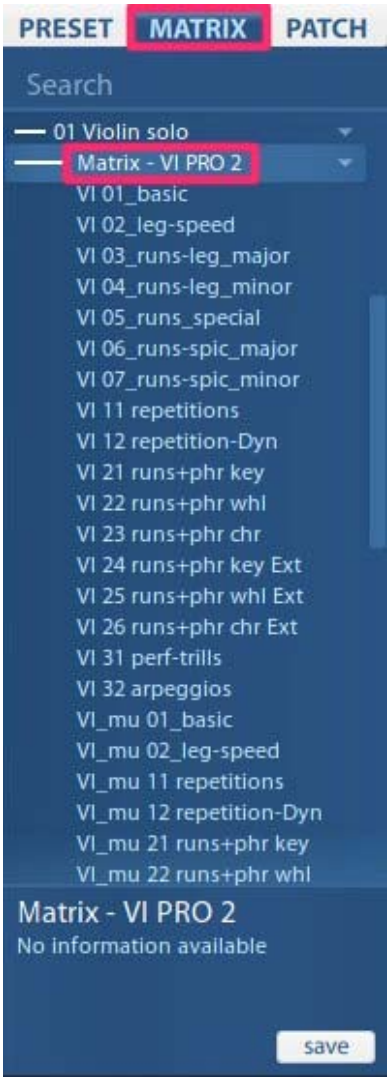
All Vienna Instruments PRO 2 Presets and Matrices have been saved with their cells disabled. This way you can load them quickly to analyze the various loaded Presets and Matrices.

If you activate "Force Enabled ON" in the Settings Menu, these Presets and Matrices will be loaded with enabled cells.

Single Instrument Matrices

There are special folders for Vienna Instruments PRO 2 in the Matrix list of all String and Wind Instruments:

"MATRIX – VI PRO 2"



These folders hold up to 17 new Matrices.

Matrices from 01–09 are "conventional" matrices, without the internal APP Sequencer activated.

Matrix 11 and higher contain sequence-based Matrices.

"01_basic" – The Allround Matrix

Available for all String and Wind Instruments.

A collection of the most essential articulations of the given instrument, with up to 40 different patches.

The Patches have been assembled from the Standard & Extended Library content of each Vienna Instruments Collection, but of course these Matrices are also available if you only have a license for the Standard Library of your Collection. The Patches that are not available will appear with a red background in the Matrix Cells and in the Slot Rack.

X-Axis Controller (horizontal): Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards
For Contra Bass Instruments (lowest notes below C2): C6 upwards

Use these Keyswitches to change between main categories of Patches like short notes, sustains and Performance Intervals.

Y-Axis Controller (vertical): CC1 (ModWheel)

Use the ModWheel to access different variations of a main category, e.g., sustains: with and without vibrato, with progressive vibrato.

Cell Configuration:

C Short Single Note samples (staccato, détaché, portato)
C# Sustains (with/without vibrato)
D Dynamic Single Notes (fortepiano, sforzando, sforzantissimo)
D# Performance Intervals (legato, trills, marcato, portamento)
E Performance Repetitions (legato, portato, staccato, spiccato, harsh)
F Fast Repetitions (in different tempos)
F# Tremolo, flutter tongue, recorded trills
G pizzicato, col legno (strings only)
G# Harmonics (strings only)
A Ponticello (strings only)

The configuration of individual Cells has been designed to be interchangeable throughout all instruments; e.g., a staccato will always be found in the same Cell position, irrespective of whether you are using a string or a wind instrument. This allows a quick change of instruments in your arrangement.

"02_leg-speed" (resp. "glissando-speed") – Tweakable Intervals

Available for all String and Woodwind Instruments, as well as for Brass Instruments with Glissando/Portamento Patches.

The new Enveloped Stretching tools in Vienna Instruments PRO 2 allow you to control the transition length of Performance Interval Patches in real-time.

> **Attention:** Loading or "enabling" these matrices for the first time will cause some delay due to the necessary rendering time.

X-Axis Controller (horizontal): Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards
For Contrabass Instruments (lowest notes below C2): C6 upwards

Use these Keyswitches to change between different Performance Interval Patches (legato, portamento, glissando).

Y-Axis Controller (vertical): CC1 (ModWheel)

Use the ModWheel to access different transition lengths for the Performance Interval Patches.

CC1 =1 Slow transitions
CC1 = 64 Regular transitions
CC1 = 127 Fast transitions

"03_runs-leg_major" – Major runs on Speed

Available for all String and Wind Instruments with originally recorded Run Patches (Solo Violin, Orchestral Strings, selected Woodwinds, Trumpets)

Enveloped time-stretching lets you switch between different rendered speeds of the recorded runs in real-time.

The first cells of each matrix row show the tempo in BPM.

The originally played runs were performed as 32nd notes.

X-Axis Controller (horizontal): Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards
For Contrabass Instruments (lowest notes below C2): C6 upwards

Use these Keyswitches to change between different scales from C major to B major.

Y-Axis Controller (vertical): CC1 (ModWheel)

Use the ModWheel to trigger different speed variations, up to 7 tempo variations.

CC1 = 1 Slowest
CC1 = 127 Fastest

> **Hint:** For a more accurate selection of the intended playing speed it will make sense to change the Y-Axis Controller to Keyswitches.

"04_runs-leg_minor" – Minor runs on Speed

Like Matrix "03_runs-leg_major", but based on minor harmonic scales.

"05_runs-special" – Special Scale runs on Speed

Like Matrix "03_runs-leg_major", but based on chromatic and whole-tone scales.

"11 repetitions" – Repetitions without restrictions

Available for all String and Wind Instruments.

An APP Sequencer based Matrix with Host Tempo Sync activated by default.

X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab)

Y-Axis Controller (vertical): Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards
For Contrabass Instruments (lowest notes below C2): C6 upwards

The variations available in the Y-Axis are generally sequences assembled from one or 2 different articulations. For Strings, these are spiccato and staccato Performance Repetitions. For Wind Instruments, these are portato and staccato Performance Repetitions.

You can access up to 12 different pre-programmed patterns:

Slot 1	**"16th"**	16th notes based on one articulation.
Slot 2	**"16 2mc"**	16th notes based on two different articulations, accents are achieved by using the "longer" articulation.
Slot 3	**"16 mc"**	16th notes based on two different articulations, accents are achieved by using 2 "longer" articulations.
Slot 4	**"up 2"**	Sequence of one 8th note and two 16th notes.
Slot 5	**"up 1"**	Upbeats, sequence of one 8th note and one 16th note.
Slot 6	**"16 a3"**	Sequence of three 16th notes and one 16th rest.
Slot 7	**"triplet"**	8th triplets based on one articulation.
Slot 8	**"trip mc"**	8th triplets based on two different articulations, accents are achieved by using the "longer" articulation.
Slot 9	**"trip mc2"**	8th triplets based on two different articulations, every quarter beat is accentuated by using the "longer" articulation.
Slot 10	**"trip up1"**	Triplet Upbeats
Slot 11	**"Phrase A"**	Example 1 of a combination of different articulations.
Slot 12	**"Phrase B"**	Example 2 of a combination of different articulations.

"12 repetition-Dyn" – Dynamite Dynamics

Available for all String and Wind Instruments with perf-repetition_dyn Patches.

An APP Sequencer based Matrix with Host Tempo Sync activated by default.

X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab)

The available patterns are based on Performance Repetition Patches. The different volumes of the contained notes are as originally recorded and are NOT triggered by MIDI velocity.

There are up to 9 different volume levels available for every recorded dynamic repetition pattern.

Y-Axis Controller (vertical): Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards
For Contrabass Instruments (lowest notes below C2): C6 upwards

The available variations are different successions of crescendo and diminuendo repetition patters in 16th notes.

Slot 1	**"cre-dim"**	Sequence of eight 16th notes from pp–ff, followed by eight 16th notes from ff–pp
Slot 2	**"dim-cre"**	Sequence of eight 16th notes from ff–pp, followed by eight 16th notes from pp–ff
Slot 3	**"cr-di sh"**	Sequence of four 16th notes from pp–ff, followed by 4 16th notes from ff–pp
Slot 4	**"di-cr sh"**	Sequence of four 16th notes from ff–pp, followed by four 16th notes from pp–ff
Slot 5	**"cre step"**	A series of 4 sequences, each with 4 16th notes, starting with pp. Every following sequence starts at the next higher volume from the preceding one.
Slot 6	**"dim step"**	A series of 4 sequences, each with 4 16th notes, starting with ff. Every following sequence starts with the next lower volume from the preceding one.
Slot 7	**"accent A"**	A series of 4 sequences, each with 4 16th notes, with an accentuation on the quarter beat and crescendos towards the accentuated notes.
Slot 8	**"accent B"**	A series of 4 sequence parts, each with 4 16th notes, with an accentuation on the quarter beat and strong cresendos towards the accentuated notes.
Slot 9	**"Phrase A"**	Example 1 of a combination of different articulations.
Slot 10	**"Phrase B"**	Example 2 of a combination of different articulations.
Slot 11	**"Phrase C"**	Example 3 of a combination of different articulations.
Slot 12	**"Phrase D"**	Example 4 of a combination of different articulations.

"21 runs+phr key" – Diatonic Runs & Phrases

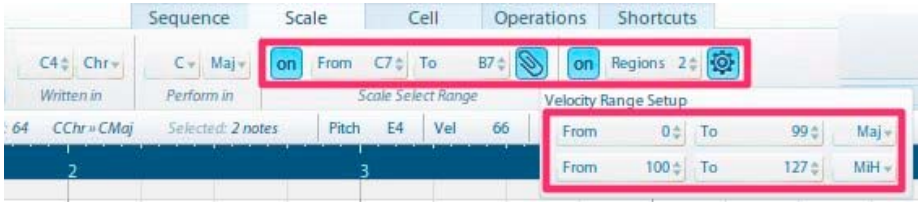
Available for all String and Wind Instruments.

An APP Sequencer based Matrix with Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7 (except Piccolo Flute: C3–B3).

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

> **Attention:** If this Matrix is loaded into an empty preset on its own, the "Scale Select Range" and "Velocity Switch" functions in the APP sequencer (Scale Tab) must be activated.



X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab). The major part of the patches used is based on Performance Fast Legatos, and Slurred Fast Legatos for most string ensembles.

Y-Axis Controller (vertical): Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards
For Contrabass Instruments (lowest notes below C2): C6 upwards

The available variations in the Y-Axis consist of upwards and downwards runs and phrases in different lengths.

Slot 1	**"Oct up"**	Diatonic run upwards, 1 octave
Slot 2	**"Oct do"**	Diatonic run downwards, 1 octave
Slot 3	**"Oct ac-u"**	Diatonic run upwards, 1 octave, with a slight accelerando
Slot 4	**"Oct ac-d"**	Diatonic run downwards, 1 octave, with a slight accelerando
Slot 5	**"2 Oct up"**	Diatonic run upwards, 2 octaves
Slot 6	**"2 Oct do"**	Diatonic run downwards, 2 octaves
Slot 7	**"Quint up"**	Diatonic run upwards, 1 fifth
Slot 8	**"Quint do"**	Diatonic run downwards, 1 fifth
Slot 9	**"Phr A up"**	Progressive phrase upwards (step by step) with a repetition note, 1 octave.
Slot 10	**"Phr A do"**	Progressive phrase downwards (step by step) with a repetition note, 1 octave.
Slot 11	**"Phr B up"**	Progressive "mordent phrase" upwards (step by step), 1 octave.
Slot 12	**"Phr B do"**	Progressive "mordent phrase" downwards (step by step), 1 octave.

"22 runs+phr whl" – Whole-tone Runs & Phrases

Like Matrix "21 runs+phr key", but based on whole-tone scales.

"23 runs+phr chr" – Chromatic Runs & Phrases

Like Matrix "21 runs+phr key", but based on chromatic scales.

“24 runs+phr key ext”

Like Matrix “21 runs+phr key”, based on fast Marcato Performance Patches.

> **Attention:** “Ext” Matrices are only available if the Extended Library of the corresponding Collection is available, and only for instruments that contain marcato and/or spiccato Performance Patches.

“25 runs+phr whl ext”

Like Matrix “21 runs+phr key”, based on fast Marcato Performance Patches and whole-tone scales.

“26 runs+phr chr ext”

Like Matrix “21 runs+phr key”, based on fast Marcato Performance Patches and chromatic scales.

"31 perf-trills" – Thrilling Trills

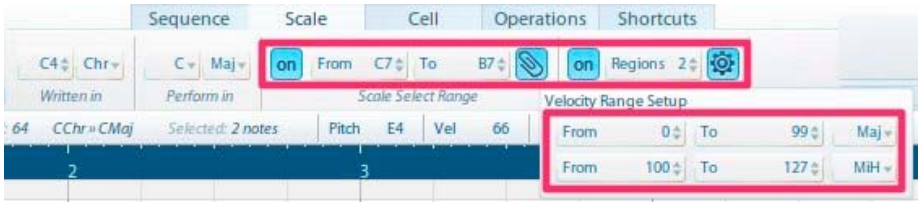
Available for all String and Wind Instruments with Performance Trill Patches.

An APP Sequencer based Matrix with Host Tempo Sync NOT activated by default. Trill speed can be set directly in the APP sequencer's "Sequence" tab.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7 (except Piccolo Flute: C3–B3).

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major Scale
Velocity 100–127: Minor Harmonic Scale

> **Attention:** If this Matrix is loaded into an empty preset on its own, the "Scale Select Range" and "Velocity Switch" functions in the APP sequencer (Scale Tab) must be activated.



X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab). The major part of the Patches used is based on Performance Trill Patches.

Y-Axis Controller (vertical): Keyswitches

For Bass to Soprano Instruments (lowest note C2): C1 upwards
For Contrabass Instruments (lowest notes below C2): C6 upwards

The available variations in the Y-Axis consist of trills in different speeds, accelerating or decelerating, plus a variety of mordents and inverted mordents ("Pralltriller").

Slot 1	**"trill"**	Trill, middle tempo.
Slot 2	**"trill ac"**	Trill, accelerating.
Slot 3	**"trill fa"**	Trill, fast tempo.
Slot 4	**"trill ri"**	Trill, decelerating.
Slot 5	**"mord up1"**	Embellishment, starting with upwards note.
Slot 6	**"mord do1"**	Embellishment, starting with downwards note.
Slot 7	**"mord up2"**	Embellishment, starting with two upwards notes.
Slot 8	**"mord up2+"**	Embellishment, starting with two upwards notes (variation).
Slot 9	**"mord do2"**	Embellishment, starting with two downwards notes.
Slot 10	**"mord do2+"**	Embellishment, starting with two downwards notes (variation).
Slot 11	**"Prall up"**	Inverted mordent ("Pralltriller") upwards
Slot 12	**"Prall do"**	Inverted mordent ("Pralltriller") downwards

"32 arpeggios" – Fantastic Four String Arpeggios

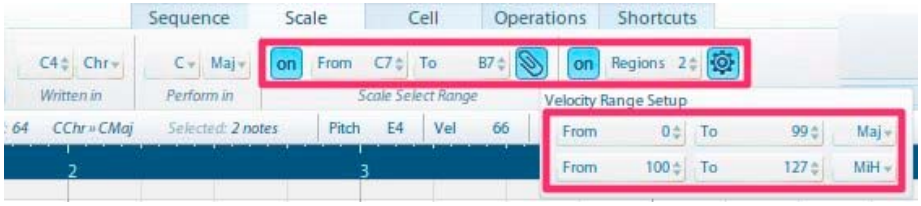
Available for all String Instruments except Double Basses.

APP Sequencer-based Matrix, Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

Attention: If this Matrix is loaded into an empty preset on its own, the "Scale Select Range" and "Velocity Switch" in the APP sequencer (Scale Tab) must be activated.



X-Axis Controller: Articulations are assigned in the APP Sequencer (Cell Tab)

The major part of the used patches is based on Performance Legato Patches, in combination with Performance Repetitions.

Y-Axis Controller: Keyswitches

Only for Bass to Soprano Instruments (lowest note C2): C1 upwards

The available variations in the Y-Axis are the most essential arpeggio chords over 4 strings within a scale (except #12).

Slot 1	**"ma3 root"**	Arpeggio Sequence, as an example in C major: C–G–E–C
Slot 2	**"ma3 inv1"**	Arpeggio Sequence, as an example in C major: C–A–E–A
Slot 3	**"ma3 inv2"**	Arpeggio Sequence, as an example in C major: C–A–F–C
Slot 4	**"ma7 root"**	Arpeggio Sequence, as an example in C major: C–G–E–B
Slot 5	**"ma7 inv1"**	Arpeggio Sequence, as an example in C major: C–G–E–A
Slot 6	**"ma7 inv2"**	Arpeggio Sequence, as an example in C major: C–A–F–E
Slot 7	**"ma7 inv3"**	Arpeggio Sequence, as an example in C major: C–A–F–D
Slot 8	**"ma9 1"**	Arpeggio Sequence, as an example in C major: C–G–D–B
Slot 9	**"ma9 2"**	Arpeggio Sequence, as an example in C major: C–G–E–D
Slot 10	**"ma9 3"**	Arpeggio Sequence, as an example in C major: C–A–E–D
Slot 11	**"Qua–Qui"**	Arpeggio Sequence, as an example in C major: C–F–C–F
Slot 12	**"augm chr"**	Arpeggio Sequence, as an example in C major: C–G#–E–C

Single Instrument Presets

All Vienna Instruments PRO 2 Single Instrument Presets are contained in the already existing Preset folders. They are placed right before the original Vienna Instruments Presets.

All Cells are saved in “disabled” status (without any loaded samples). If you want your Presets to be loaded with their Cells automatically enabled, just activate “Force Enabled ON/OFF” in the Settings menu.

Use Keyswitches to switch between Matrices. Alternatively, you can also use Program Changes or MIDI Control Changes.

Matrix switching: Keyswitches

For Alto and Soprano Instruments (lowest note C3): C2 upwards
For Bass and Tenor Instruments (lowest notes below C3): C6 upwards
For Contrabass Instruments (lowest notes below C2): C5 upwards

Internal reverb is activated!

Tuning Table: 12-tone

Assignment of the most important controllers (pre-configured sliders in Basic View)

Master Volume	CC7
Velocity X-Fade	CC2
Velocity X-Fade ON/OFF switch	CC28
Dyn Range scaler	CC30
Start Offset scaler	CC21
Expression	CC11
Filter	CC24
Tuning	CC26 (scales Humanize Tuning Curves)
Reverb Dry/Wet	CC14
Reverb ON/OFF switch	CC15

Common Matrix assignments (if corresponding Patches are available):

C 01_basic
C# 11 repetitions
D 12 repetition-Dyn
D# 21 runs+phr key
E 22 runs+phr whl
F 23 runs+phr chr
F# 24 runs+phr key ext
G 25 runs+phr whl ext
G# 26 runs+phr chr ext
A 31 perf-trills
A# 32 arpeggios

Chord Matrices

The Matrix Browser displays Chord Matrices in a new folder above the corresponding instrument group's original Single Instruments folder.

The following Chord Matrix folders are available and will be displayed if the respective licenses are available:

String MATRIX Files

A Solo Strings	*License:* Solo Strings
A Solo Strings – mute	*License:* Solo Strings II
B Chamber Strings	*License:* Chamber Strings
B Chamber Strings II	*License:* Chamber Strings II
C Orchestra Strings	*Licenses:* Orchestra Violins/Violas, Orchestra Celli/Bassi
C Orchestra Strings – mute	*Licenses:* Orchestra Violins/Violas, Orchestra Celli/Bassi
D Appassionata Strings	*License:* Appassionata Strings I
D Appassionata Strings – mute	*License:* Appassionata Strings II

All Chord Matrices are based on APP Sequences and consist of chords with 4 or 5 voices with the following voicing:

1st Voice	Violins 1
2nd Voice	Violins 2
3rd Voice	Violas
4th Voice	Cellos
5th Voice	Double Basses

Chord Matrices

"01 Chords (8)"

Available for all instrument groups with Chord Matrices.

Play range: C3–B5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Selection of 12 scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

X-Axis Controller (horizontal): Keyswitches to trigger the most important articulations:

C6	Performance Legato
C#6	Portamento (Strings) or Sustain Vibrato (Winds)
D6	Staccato
D#6	Détaché (Strings) or Portato short (Winds)
E6	Sustain with vibrato (Strings) or Sustain without vibrato (Winds)
F6	Fortepiano (Appassionata Strings: Sforzando)
F#6	Sforzando
G6	Performance Repetition (Legato)
G#6	Performance Repetition Portato (Solo Strings: Staccato)
A6	Performance Repetition Spiccato (Strings) or Staccato (Winds)
A#6	Tremolo (Strings) or Flutter Tongue (Winds)
B6	Pizzicato (Strings) or Sforzatissimo (Winds)

Y-Axis Controller (vertical): Keyswitches for a choice of different chord inversions and additional chords like diminished, augmented and ninth chords

With all variations, the soprano voice plays the root note.

C1	"ma3 root"	Triad, bass note on the root note
C#1	"ma3 inv1"	Triad, bass note on the third
D1	"ma3 inv2"	Triad, bass note on the fifth
D#1	"ma7 root"	Seventh chord, bass note as root
E1	"ma7 inv1"	Seventh chord, bass note on the third
F1	"ma7 inv2"	Seventh chord, bass note on the fifth
F#1	"ma7 inv3"	Seventh chord, bass note on the seventh
G1	"ma9"	Ninth chord
G#1	"dim7 chr"	Diminished Seventh chord (chromatic transposition)
A1	"augm chr"	Augmented Triad (chromatic transposition)
A#1	"root + 5th"	Chord without third
B1	"5th 3x"	Chord in steps of fifths

"02 Chords (3)"

Like Matrix "01 Chords (8)", soprano voice on the third

“03 Chords (5)”

Like Matrix “01 Chords (8)”, soprano voice on the fifth

“04 Chords (7+8)”

Like Matrix “01 Chords (8)”, soprano voice on the octave or on the seventh (with all Seventh chords)

“05 Chords (8) Ext”

Like Matrix “01 Chords (8)”, partly based on alternative articulations in the X-Axis (if Extended Library content is available).

C6 Performance Trills
C#6 Performance Marcato
D6 Performance Spiccato (Strings) or Single Note Staccato (Winds)
D#6 Détaché long (Strings) or Portato medium (Winds)
E6 Sustain without vibrato
F6 Short Crescendos & Diminuendos (ca. 2 seconds), switch with A/B Switch
F#6 pfp (crescendo – diminuendo)
•G6 Performance Repetition Legato (except Appassionata Strings: pfp long)
G#6 Performance Repetition Portato (except Appassionata Strings: Performance sfz)
A6 Performance Repetition Harsh (Strings) or Staccato (Winds)
A#6 Harmonics (Strings except Appassionata Strings) or Flutter tongue (Winds)
B6 (Snap) Pizzicato (Strings) or Sforzatissimo (Winds)

“06 Chords (3) Ext”

Like Matrix “05 Chords (8) Ext”, soprano voice on the third

“07 Chords (5) Ext”

Like Matrix “05 Chords (8) Ext”, soprano voice on the fifth

“08 Chords (7+8) Ext”

Like Matrix “05 Chords (8) Ext”, soprano voice on the octave or on the seventh (with all seventh chords)

"11 Cho-rep (8)"

Available for all instrument groups with Chord Matrices.

Play range: C3–B5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab)

Y-Axis Controller (vertical): Keyswitches for a choice between different chord inversions and additional chords like diminished, augmented and ninth chords

With all variations, the soprano voice plays the root note; all sequences are based on a 16th-note repetition pattern chord.

C1	"ma3 root"	Triad, bass note on the root note
C#1	"ma3 inv1"	Triad, bass note on the third
D1	"ma3 inv2"	Triad, bass note on the fifth
D#1	"ma7 root"	Seventh chord, bass note as root
E1	"ma7 inv1"	Seventh chord, bass note on the third
F1	"ma7 inv2"	Seventh chord, bass note on the fifth
F#1	"ma7 inv3"	Seventh chord, bass note on the seventh
G1	"ma9"	Ninth chord
G#1	"dim7 chr"	Diminished Seventh chord (chromatic transposition)
A1	"augm chr"	Augmented Triad (chromatic transposition)
A#1	"root + 5th"	Chord without third
B1	"5th 3x"	Chord in steps of fifths

"12 Cho-rep (3)"

Like Matrix "11 Cho-rep (8)", soprano voice on the third

"13 Cho-rep (5)"

Like Matrix "11 Cho-rep (8)", soprano voice on the fifth

"14 Cho-rep (7+8)"

Like Matrix "11 Cho-rep (8)", soprano voice on the octave or on the seventh (with all seventh chords)

"15 Cho-repDyn (8)"

Available for all instrument groups with Chord Matrices.

Play range: C3–B5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab)

Y-Axis Controller (vertical): Keyswitches for a choice between different chord inversions and additional chords like diminished, augmented and ninth chords

With all variations, the soprano voice plays the root note; all sequences are based on a 16th-note repetition pattern chord with dynamic changes, and contain eight 16ths from pp–ff and eight 16ths from ff–pp.

C1	"ma3 root"	Triad, bass note on the root note
C#1	"ma3 inv1"	Triad, bass note on the third
D1	"ma3 inv2"	Triad, bass note on the fifth
D#1	"ma7 root"	Seventh chord, bass note as root
E1	"ma7 inv1"	Seventh chord, bass note on the third
F1	"ma7 inv2"	Seventh chord, bass note on the fifth
F#1	"ma7 inv3"	Seventh chord, bass note on the seventh
G1	"ma9"	Ninth chord
G#1	"dim7 chr"	Diminished Seventh chord (chromatic transposition)
A1	"augm chr"	Augmented Triad (chromatic transposition)
A#1	"root + 5th"	Chord without third
B1	"5th 3x"	Chord in steps of fifths

"16 Cho-repDyn (3)"

Like Matrix "15 Cho-repDyn (8)", soprano voice on the third

"17 Cho-repDyn (5)"

Like Matrix "15 Cho-repDyn (8)", soprano voice on the fifth

"18 Cho-repDyn (7+8)"

Like Matrix "15 Cho-repDyn (8)", soprano voice on the octave or on the seventh (with all seventh chords)

"21 Cho-Run key"

Available for all Instrument Groups with Chord Matrices.

Play range: C3–C5 (depending on the instrument group and played chord,some limitations in the highest play range will apply)

Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab). The main part of the used Patches is based on Performance Fast Legatos, and Slurred Fast Legatos for most String ensembles.

Y-Axis Controller (vertical): Keyswitches for a choice between different runs upwards and downwards in different lengths and chord combinations. (Switches G#1–B1 are not available for the chord groups of Trumpets, Horns and Trombones due to the limited play range of these instrument groups).

C1	"up Octav"	Octave run upwards, chord in unison in octaves
C#1	"do Octav"	Octave run downwards, chord in unison in octaves
D1	"up Oc+Qi"	Octave run upwards, chord in fifths and octaves
D#1	"do Oc+Qi"	Octave run downwards, chord in fifths and octaves
E1	"up Ch-sh"	Fourth run, crossed voices: upper voices upwards, lower voices downwards
F1	"do Ch-sh"	Fourth run, crossed voices: upper voices downwards, lower voices upwards
F#1	"up Ch-me"	Octave run, crossed voices: upper voices upwards, lower voices downwards
G1	"do Ch-me"	Octave run, crossed voices: upper voices downwards, lower voices upwards
G#1	"up Ch-lo"	Run over 2 octaves, crossed voices: upper voices upwards, lower voices upwards and downwards
A1	"do Ch-lo"	Run over 2 octaves, crossed voices: upper voices downwards, lower voices downwards and upwards
A#1	"up solo"	Run over 4 octaves in unison, upwards with changing instrumentation
B1	"do solo"	Run over 4 octaves in unison, downwards with changing instrumentation

"22 Cho-Run whl"

Like Matrix "21 Cho-Run key", based on whole-tone scales

"23 Cho-Run chr"

Like Matrix "21 Cho-Run key", based on chromatic scales

"24 Cho-Run key Ext"

Like Matrix "21 Cho-Run key", based on fast Marcato Performance Patches.

> **Attention:** "Ext" Matrices are only available if the corresponding Instrument's Extended Library is available, and only for instruments that contain marcato and/or spiccato Performance Patches.

"25 Cho-Run whl Ext"

Like Matrix "21 Cho-Run key", based on fast Marcato Performance Patches and whole-tone scales.

"26 Cho-Run chr Ext"

Like Matrix "21 Cho-Run key", based on fast Marcato Performance Patches and chromatic scales.

"31 Cho-Phr key"

Available for all instrument groups with Chord Matrices.

Play range: C3–C5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

X-Axis Controller (horizontal): Articulations/Patches are assigned in the APP Sequencer (Cell Tab). The main part of the Patches used is based on Performance Fast Legatos.

Y-Axis Controller (vertical): Keyswitches for a choice between different phrases, upwards and downwards in different chord combinations.

C1	"up Octav"	Incremental octave phrase upwards with repetition note, chord in unison, arranged in octaves
C#1	"do Octav"	Incremental octave phrase downwards with repetition note, chord in unison, arranged in octaves
D1	"up Oc+Ch"	Incremental octave phrase upwards with repetition note, arranged in triads
D#1	"do Oc+Ch"	Incremental octave phrase downwards with repetition note, arranged in triads
E1	"up Phr"	Phrase upwards, starting with repetition note, chord in unison, arranged in octaves
F1	"do Phr"	Phrase downwards, starting with repetition note, chord in unison, arranged in octaves
F#1	"up Octav"	Incremental octave phrase upwards with changed note (cambiata), chord in unison, arranged in octaves
G1	"do Octav"	Incremental octave phrase downwards with changed note (cambiata), chord in unison, arranged in octaves
G#1	"up Oc+Ch"	Incremental octave phrase upwards with changed note (cambiata), arranged in triads
A1	"do Oc+Ch"	Incremental octave phrase downwards with changed note (cambiata), arranged in triads
A#1	"up Phr"	Phrase upwards starting with changed note (cambiata), chord in unison, arranged in octaves
B1	"do Phr"	Phrase downwards with changed note (cambiata) downwards, chord in unison, arranged in octaves

"32 Cho-Phr whl"

Like Matrix "31 Cho-Phr key", based on whole-tone scales.

"33 Cho-Phr chr"

Like Matrix "31 Cho-Phr key", based on chromatic scales.

"34 Cho-Phr key Ext"

Like Matrix "31 Cho-Phr key", based on fast Marcato Performance Patches.

> **Attention:** "Ext" Matrices are only available if the corresponding Instrument's Extended Library is available, and only for instruments that contain marcato and/or spiccato Performance Patches.

“35 Cho-Phr whl Ext”

Like Matrix “31 Cho-Phr key”, based on fast Marcato Performance Patches and whole-tone scales.

“36 Cho-Phr chr Ext”

Like Matrix “31 Cho-Phr key”, based on fast Marcato Performance Patches and chromatic scales.

“41 Cho-trem”

Finger tremolos available for all String and Woodwind groups with Chord Matrices and Performance Trill Patches. (Extended Library Content required!)

An APP Sequencer based Matrix with Host Tempo Sync NOT activated by default. Trill speed can be set directly in the APP sequencer’s “Sequence” tab.

Play range: C3–B5 (depending on the instrument group and played chord, some limitations in the highest play range will apply)

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major scale
Velocity 100–127: Minor harmonic scale

X-Axis Controller (horizontal): Articulations are assigned in the APP Sequencer (Cell Tab).

Y-Axis Controller (vertical): Keyswitches for a choice of different chord inversions and additional chords like diminished, augmented and ninth chords.

Pattern Matrices

Four variations, only available for Strings:

Theme 01a Leg
Theme 01b Marc
Theme 01c Walk
Theme 01d Arp

All four matrices are based on 2 bars of looped musical building blocks. These building blocks are designed as examples to show the possibilities of the APP Sequencer.

Make use of the different musical structures of this pattern also with different lengths: half a bar, a whole bar or 2 bars.

Play range: C3–B5 (depending on the Instrument Group and played chord, some limitations in the highest play range will apply)

Host Tempo Sync activated by default.

Selection of 12 Scales from C major/minor to B major/minor by Keyswitches C7–B7.

Change between major and minor harmonic scales by Velocity Switch:
Velocity 0–99: Major Scale
Velocity 100–127: Minor Harmonic Scale

X-Axis Controller: Articulations are assigned in the APP Sequencer (Cell Tab).

Y-Axis Controller: Keyswitches to choose between different chord inversions.

Chord Presets

The Vienna Instruments PRO 2 Chord Presets are located in a folder above the original Single Instruments folder in the Preset Browser of the corresponding instrument group.

All Cells are saved in “disabled” status (without any loaded samples). To load your Presets with all cells automatically enabled, simply activate “Force Enabled ON/OFF” in the Settings menu.

Use Keyswitches to switch between Matrices. Alternatively, you can also use Program Changes or MIDI Control Changes.

Internal Reverb is activated!

Tuning Table: 12-tone

Assignment of the most essential controllers (pre-configured sliders in Basic View)

Master Volume	CC7
Velocity X-Fade	CC2
Velocity X-Fade ON/OFF switch	CC28
Dyn Range Scaler	CC30
Start Offset Scaler	CC21
Expression	CC11
Filter	CC24
Tuning	CC26 (scales Humanize Tuning Curves)
Reverb Dry/Wet	CC14
Reverb ON/OFF switch	CC15

Preset “Chords Std Set”

Contains the most important 11 Chord Matrices, based mostly on Standard Library Content.

C2	01 Chords (8)
C#2	02 Chords (3)
D2	03 Chords (5)
D#2	04 Chords (7+8)
E2	11 Cho-rep (8)
F2	12 Cho-rep (3)
F#2	13 Cho-rep (5)
G2	14 Cho-rep (7+8)
G#2	21 Cho-Run key
A2	22 Cho-Run whl
A#2	23 Cho-Run chr

Preset “Chords Full Set”

Contains all available Chord Matrices (except Phrase Matrices), therefore based on Full Library Content.
If you intend to use all matrices via Keyswitches, you will need a second keyboard for playing live!

C2 01 Chords (8)
C#2 02 Chords (3)
D2 03 Chords (5)
D#2 04 Chords (7+8)
E2 11 Cho-rep (8)
F2 12 Cho-rep (3)
F#2 13 Cho-rep (5)
G2 14 Cho-rep (7+8)
G#2 21 Cho-Run key
A2 22 Cho-Run whl
A#2 23 Cho-Run chr

C ~ 05 Chords (8) Ext
C# ~ 06 Chords (3) Ext
D ~ 07 Chords (5) Ext
D# ~ 08 Chords (7+8) Ext
E ~ 15 Cho-repDyn (8)
F ~ 16 Cho-repDyn (3)
F# ~ 17 Cho-repDyn (5)
G ~ 18 Cho-repDyn (7+8)
G# ~ 24 Cho-Run key Ext
A ~ 25 Cho-Run whl Ext
A# ~ 26 Cho-Run chr Ext

Pattern Preset Theme 01

Contains all four Pattern Matrices, only available for Strings.

C2 Theme 01a Leg
C#2 Theme 01b Marc
D2 Theme 01c Walk
D#2 Theme 01d Arp